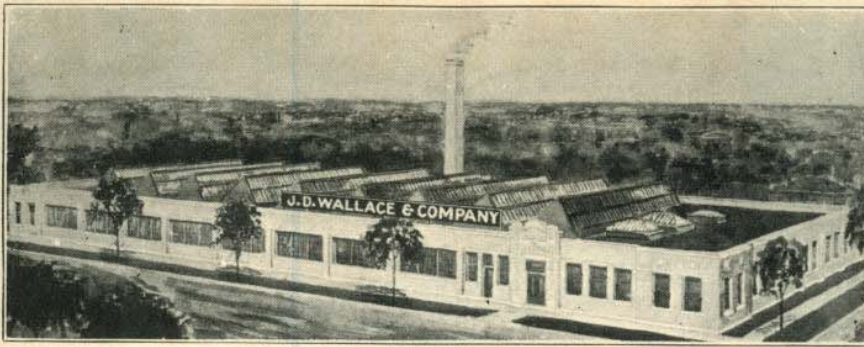




WORKACE

Woodworking Machines

- BRINGS HAPPY HOURS TO THE HOME .
- BUILDS CHARACTER IN BOYS
- STARTS MEN IN PROFITABLE BUSINESS .
- SAVES MONEY IN THE SHOP



GENERAL OFFICE and FACTORY--CHICAGO

Service and Sales offices in New York, Philadelphia, Newark, Boston Syracuse, Buffalo, Baltimore, Pittsburgh, Cleveland, Cincinnati, Fort Wayne, Detroit, Grand Rapids, Milwaukee, Minneapolis, Galesburg, St. Louis, Louisville, Greensboro, Atlanta, Birmingham, New Smyrna (Fla.), New Orleans, Houston, Dallas, San Antonio, Kansas City, Tulsa, Denver, Salt Lake City, El Paso, Phoenix, San Francisco, Portland, Los Angeles where you contact direct factory men—DEALERS EVERYWHERE.

ON DESIGN and CONSTRUCTION—by J. D. Wallace, President.

Our advertising department insists that I write an editorial for the catalog—that I tell something of the design and construction as well as the thought and experience that is built into the machines that we are submitting to you in this catalog.

It has been 20 years since we originated the first portable woodworking machines, and during the years following we have produced some 60,000 of the various types of our commercial machines—the WALLACE LINE—besides the many thousands of the popular priced Workace line which we have been making for the past five years.

With your indulgence, therefore, I will go over some of the details and ideas on which we have based the machines in this catalog. From an engineering point of view we are proud of them, because it is no small achievement to design practical and workmanlike units that will perform all of these operations with such universal satisfaction to our many customers, and at the same time keep our prices down to a reasonable level.

FLOATING MOTOR DRIVE

The Workace line has been built around the floating motor drive, which is the simplest and most efficient method of belt drive ever used on small machines. It gives you many advantages: More power because it ensures perfect belt tension at all times; permits you to place machines where they will be most convenient, moving them about the shop to any position; and reduces the time and expense of installation to practically nothing—anybody can set up these machines in a jiffy. The floating motor drive is economical too, because you need only one motor for all your Workace machines and can move that motor instantaneously from one machine to the other, shifting belts with perfect ease and safety, even without stopping the motor. It is safe to say that the Wallace floating motor drive sounds the death knell to costly, inconvenient, power-wasting lineshafts and countershafts.

HEAVY SHAFTS

Our experience in the manufacture of 60,000 Wallace machines, which have been used in the finest production shops in the country, led us to select a $\frac{5}{8}$ " diameter for the spindle size of our saw, planer and lathe. The extra strength from this larger size assures you of safety in operating your machines and saves much possible expense for replacing broken spindles.

STEEL TABLES

Steel saw tables as used exclusively by us give you decided advantages over the cast iron types ordinarily used. Steel does not warp and therefore you will always have an absolutely accurate surface. Steel tables are used on our most expensive production machines and we find that there, as well as in the Workace line, their great strength and light weight allow a larger table size than can be obtained

with heavy castings. In our saw table particularly we avoid the objectionable groove for the crosscut fence, by the use of the steel table. Such grooves interfere with the accurate setting of the rip fence and hinder the easy handling of stock on the table surface.

BEARINGS

In Workace machines as in our more expensive Wallace line, we always use the kind of bearings that assures you of maximum efficiency plus freedom from exasperating and expensive breakdowns and repair bills. The high grade bronze bearings used in our Workace machines are generally more accurate and durable than the cheap ball and roller bearings poorly mounted in many home shop machines; and they are superior as well to "oilless" bearings which are only suitable for slow speed service. Our adaptation of the same high grade bronze bearings used in our most expensive machines, permits the use of extra large diameter spindles without sacrificing cutting capacity, and affords trouble-free service best adapted to the conditions under which your machines will be used.

LATHE BED

We elect to use heavy steel rods for the lathe bed in preference to angle iron or channel stock because our rods are within .001" of perfect accuracy in diameter and straightness at all points. Our lathe bed is absolutely rigid, and therefore this construction is not only superior but also economical, permitting us to spend more of our manufacturing dollar elsewhere in the machine and to give you so much for so little money.

* * * *

All other features of our machines are carefully chosen for similar reasons—to give the best results for your kind of service. We will admit that at times we have been sorely tried and tempted to deviate from what our long experience in building portable woodworking machines has taught us. We have been tempted to adopt certain designs or to add "talking points" for which there was a popular demand altho not based on the sound methods practiced by experienced woodworkers. We have been tempted to skimp here and there to produce at a lower competitive price, machines which would not satisfactorily perform the operations for which they are intended. But the temptation has never been strong enough to have us lose sight of our goal—and that goal is to always have the reputation of delivering to our customers machines into which we have built by sound engineering principles, greatest economy in both manufacturing and merchandising; and the most satisfaction at the lowest price in the long run, considering investment, maintenance, operation and service.

In short, I prefer to be in a position to receive a warm welcome when I visit my customers, especially those who have had many of our machines in service for years, and listen to expressions of satisfaction with the products of my company.

Respectfully submitted,

J. D. Wallace

President.

GUARANTEE: Any part of a WORKACE machine found to be defective in workmanship or material will be replaced within one year free, f.o.b. Chicago. This is your assurance of satisfaction—it is backed by the largest, most substantial manufacturers of cabinet shop woodworking machines.—J. D. WALLACE & CO., Chicago, U. S. A.

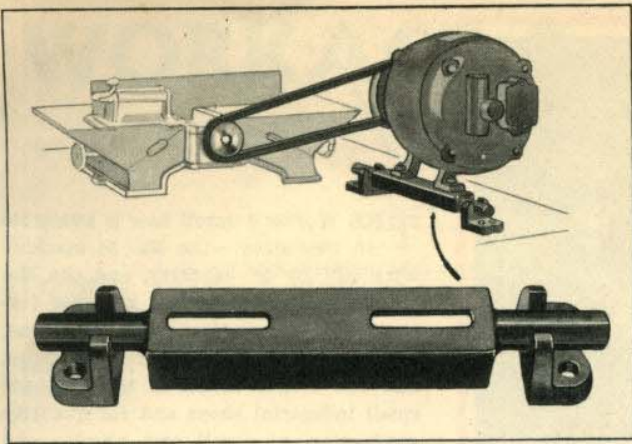


Illustration above shows how motor is mounted in the new FLOATING DRIVE. Note how motor is mounted to keep belt tight at all times. Motor can be easily lifted out of brackets and used on another machine—avoiding the waste of line shafts.

FLOATING DRIVE is an exclusive WALLACE development that brings added efficiency, economy and convenience to WORKACE machines. Just as WORKACE Machines themselves represent a new high standard in quality construction and design at a popular price—so FLOATING DRIVE represents a radical departure from conventional drive arrangements. This departure from the common line shaft and belt results in a marked economy, increase in efficiency and greater operating convenience.

WALLACE FLOATING DRIVE consists of a special method of motor mounting. Two open end brackets are permanently bolted to the base, table or bench. The motor is mounted on a specially designed motor bar that fits in the bracket as shown in the illustration above. The V-Belt is then slipped over the motor pulley and the machine pulley, so that the motor literally "floats" keeping the belt tight.

The weight of the motor plus the reaction of the electrical condition set up when a load is placed on the machine acts downward, causing the belt to hug the pulley, producing a uniform belt tension at all times by overcoming the natural tendency of a running belt to throw away from the pulley. This results in maximum driving efficiency, longer belt life, minimum starting load, and minimum bearing wear.

By equipping each machine with a pair of motor brackets, the motor mounted on the bar can be moved from machine to machine, as desired. No need to install costly line shafting. No need to submit to an inflexible shop arrangement. WALLACE FLOATING DRIVE offers freedom in shop layout. Place the machines in the shop to suit your convenience. You are not held to a straight line as when a line shaft is used. Nor is it necessary to invest in hangers, line shafts, counter shafts, and many pulleys and belts. WALLACE FLOATING DRIVE saves power space, investment in equipment. It is another proof that WALLACE engineers are blazing the trail to better machines and methods in the home shop.

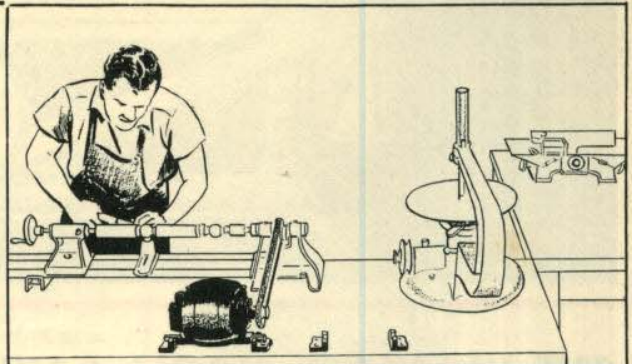
WALLACE Floating DRIVE

—Patent Pending—

✓ **An Exclusive Feature
That Adds Efficiency
to Workace Machines**

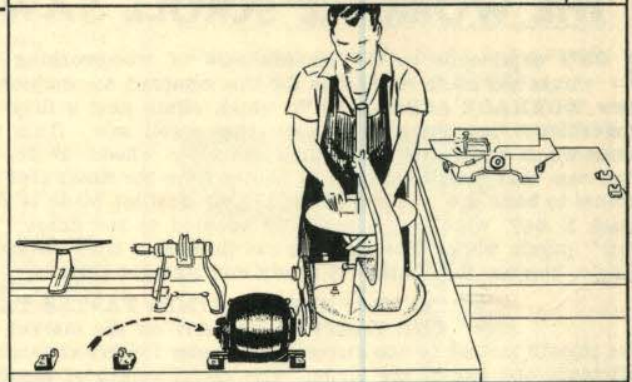
No Costly Wasteful Line Shafting

Here is a smart shop. No investment in line shafting, pulleys, belts, hangars. No maze of belts. Machines arranged to suit operators' convenience.



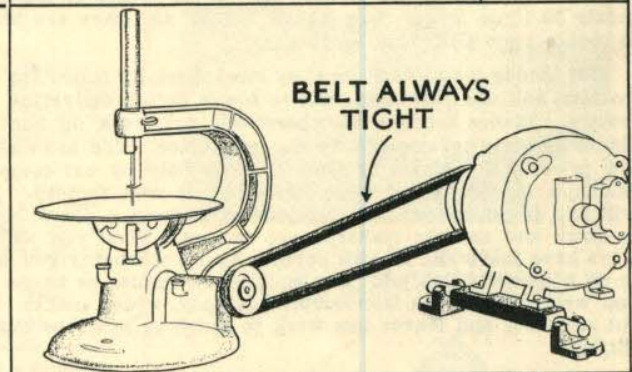
One Motor Serves All Machines

Through with the lathe? Simply transfer the motor to the next machine. Done in a jiffy. The same motor drives all machines.



Greater Efficiency

The V-Belt is always snug, no adjustment necessary. Maximum power is constantly obtained, as more power is required in cutting it is automatically supplied.



Easily Portable —Convenient

WORKACE Machines can be set anywhere and moved at will. No need for a fixed location in relation to a line shaft. No need to sacrifice space in your shop to a fixed assembly as in line driven outfits.

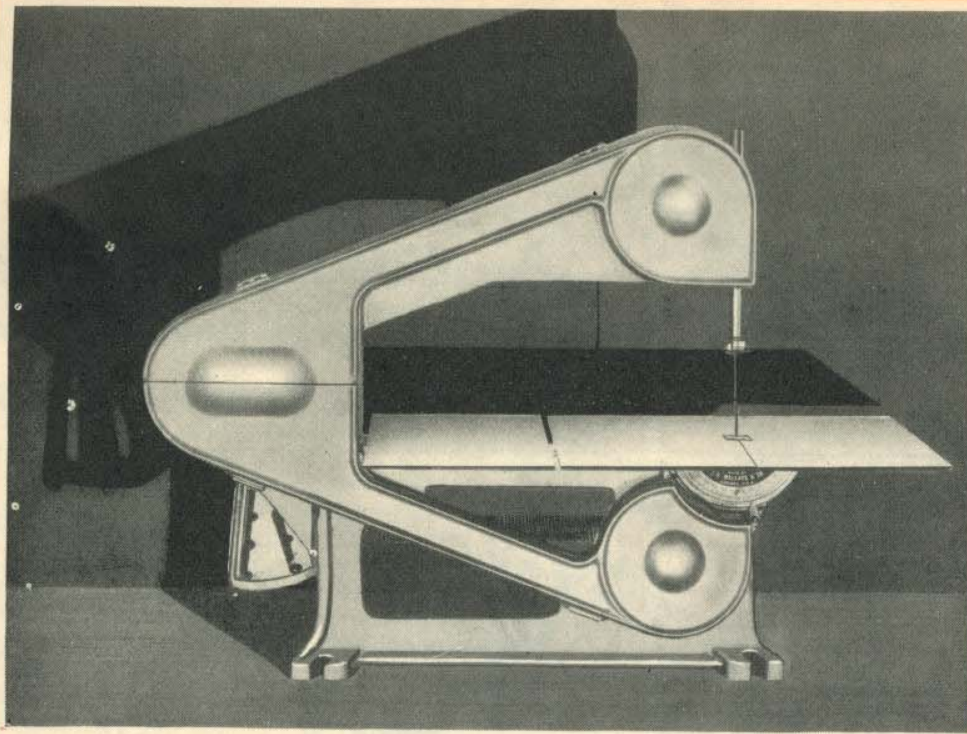


Patent Pending Patent claims covering all features of this device and its modifications are pending and they will be protected to the full extent of the law.—J. D. Wallace & Co.

Motor Bar No. 2928—For ¼ h.p. motors.

Motor Platform No. 2976—For ⅓ or ½ h.p. motor.

Brackets No. 2929—For use with No. 2928 and No. 2976.



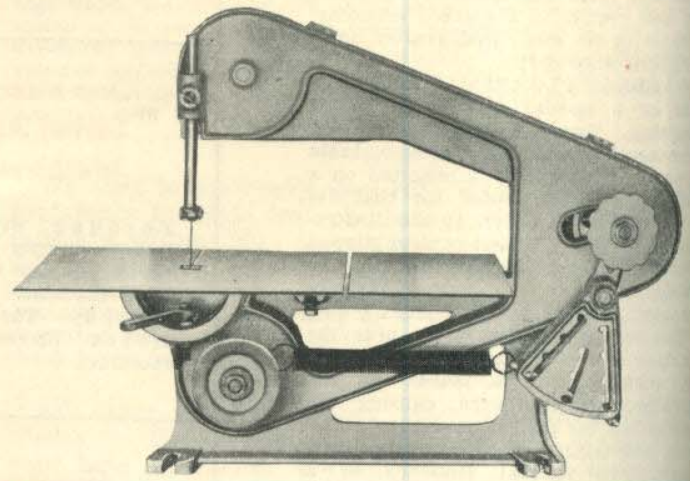
THE Workace Scroll Saw is available in two sizes;—the No. 34 machine with 12" by 5" capacity, and the No. 35 with 24"x6" capacity; all other features of construction being the same. The small size is ideal for home shops, and the larger model is intended for small industrial shops and for quantity production of scroll saw puzzles and similar work where a wide throat capacity is required.

THE WORKACE SCROLL SAW

LONG experience in the manufacture of woodworking machines has made it possible for this company to produce the new WORKACE SCROLL SAW which offers new utility and convenience not obtained in any other scroll saw. This is a three-wheel band saw with small diameter wheels of feather lightness that permits the use of blades from the finest fret saw blades to band saw blades 1/4" wide. Our smallest blade is .010" thick x .040" wide and is perfectly adapted to the finest "jigsaw" puzzle work. These can be cut three at a time instead of singly, because the blades cut freely and straight thru.

Scroll Sawing: The blade speed is 6 TIMES FASTER THAN THE FASTEST JIGSAW on the market and the smooth motion in one direction increases further the cutting efficiency and life of the blade. The useful length of blades is nearly 50 times longer than jigsaw blades, and they are priced to reduce your blade cost by 10 times.

Our blades are made from alloy steel specially rolled for this machine and are guaranteed not to break before delivering full service. Blades secured elsewhere will not work on our machines and are not covered by our guarantee. The astonishing low price of our blades is made possible only by our complete facilities for producing these items in our own factory. You will find it convenient and inexpensive to keep a dozen blades in stock and use our resharpening service. Then you will always have sharp and smooth cutting blades whenever you want to do a specially fine job. Our equipment enables us to file, set and weld blades with microscopic accuracy, which makes them cut smoother and leaves less work to finish or sand the curved surfaces.



Band Sawing: In addition to puzzle or scroll saw work, the WORKACE SCROLL SAW is indispensable in the shop for all curved band sawing. Model No. 34 has the capacity of a 12" band saw; No. 35 has the capacity of a 24" band saw. The unique design of this band saw makes it more compact and convenient to set up and operate. All moving parts are completely enclosed and all adjustments are made from the front of the machine, this promoting speed and safety of operation. The small wheels reduce the power required to run the machine, and entirely eliminate vibration avoiding rough and uneven cutting noted in many bandsaws with large heavy wheels.

SPECIFICATIONS

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

WORKACE Scroll Saw

{ Two Sizes -- No. 34, 12" -- No. 35, 24" }

DESCRIPTION

Frame: A single heavy ribbed iron casting with suitable mountings for table and band wheels encloses all moving parts at back and sides.

Guard: Two hinged iron castings swing together to cover the wheels and saw blade from the front sides. They are easily opened to change and adjust saw blades.

Table: A heavy steel table 12" square mounted on a cradle tilts to 45° and has a stop to locate it at right angles to the blade. The tilting angle is shown by a graduated degree plate visible from the front of the machine. The auxiliary table is convenient for holding small pieces as they are cut off.

Wheels: The blades run on three small light weight wheels crowned and faced with removable rubber bands. The rear wheel is mounted on a swinging arm for tensioning and is tiltable for tracking the blade.

Bearings: Each wheel rotates on two large sized ball bearings which are packed in grease, requiring no further attention for the life of the machine.

Blade Tension: Is adjusted by setting a large tension spring in suitable slots in the swinging tension arm. The tension can be instantly changed with one motion to suit blades of all sizes and lengths within the capacity of the machine. The spring handle is accessible from the front of the machine, and proper tension for each blade is marked on the front of the tension arm.

Tracking The Blade: The blade is "tracked" to run on the center part of the wheels by tilting the rear idler band wheel. This is done by turning a handwheel on the rear end of the idler shaft, which is easily reached from the front of the machine. When the blade is running on the crown of the wheels, the idler shaft is locked in place with a convenient thumb screw.

Floating Motor Drive: The Workace Scroll Saw is easily and quickly put into service by using our exclusive floating motor drive (patent pending) which enables you to utilize the same motor for all your Workace machines. By merely screwing a pair of No. 2929 brackets on the bench beside the scroll saw you have a perfect motor mounting that gives correct belt tension and reduces power losses and wear and tear on the bearings. With this motor mounting added to the delicate adjustment of the small diameter band wheels, only 1/4 H.P. is required to do the heaviest work within the capacity of the machine.

Blades: The steel of the blades is specially made for our machine. Blades are carried in widths of .040", 1/8", 3/16" and 1/4". They are guaranteed and will be replaced free of charge if they fail to deliver satisfactory service.

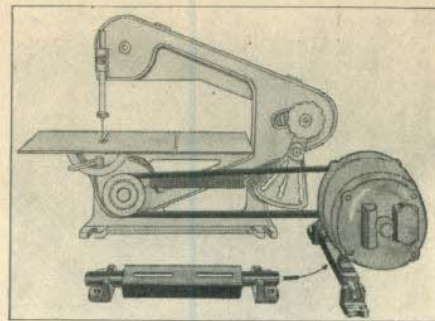
Resharpener Service: Blades .040" and 1/8" wide cannot be resharpened. Inexpensive, so discard when dull. We will resharpen 3-16" and 1/4" blades at 10c each and reweld broken blades at 5c each. To secure this service enough blades must be sent at one time to make a minimum charge of \$1.00, plus postage on each order.

Sanding Belts: Sanding belts 1/2" wide, in three grades for wood and two grades for metal are offered to sand edges of curved work. A simple and inexpensive bracket can be had as an extra which is to be screwed on to the table to back up the belt.

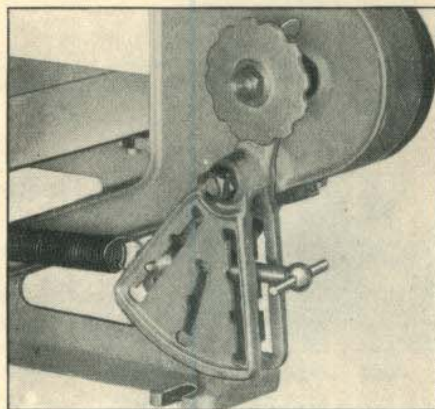
Guide: The new ball bearing guide reduces blade friction to a minimum and thus increases blade life and smooth cutting. It is small, compact and easily adjusted for any height of cut or any blade size. It provides adequate support for the blade at the cutting point, and yet does not obstruct the line to which you are cutting. The close coupled wheels leave only a short length of blade to be backed up by the guide, so that for blades as narrow as 1/8" only one guide is necessary, eliminating the difficult operation of adjusting a guide under the table.

Equipment: With each machine is included 4 blades, one each of our standard widths of .040", 1/8", 3/16" and 1/4". Extra blades are sold in packages of four of one size. At least one package of each size should be ordered with every machine.

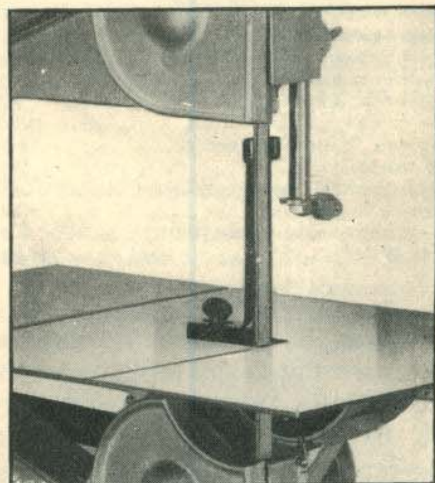
Puzzle Cutting Guides: For cutting jig saw puzzles, three or more up guides is available at small additional charge to facilitate the rapid handling of the work and turning the smallest curves at high speed. In this set the guide above the table (No. 4712) is fitted with a precision type ball bearing to back up the blade, and a pair of dowel side bits to hold it sidewise. The guide below (No. 4713) the table has dowel side bits only. For heavy puzzle production it is advisable to use Guide No. 4712 below instead of No. 4713. In this case a special cradle casting (75c) is needed.



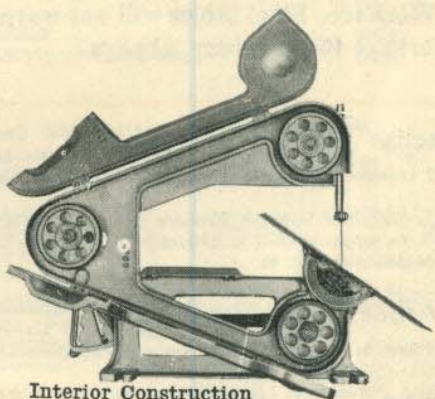
Floating Drive
(Patent applied for. See page 3)



Device for tracking blade and providing proper blade tension



Sanding Attachment
No.4605—Belt Sanding Attachment fastens to table—backs up sanding belt. Belts listed on page 18.

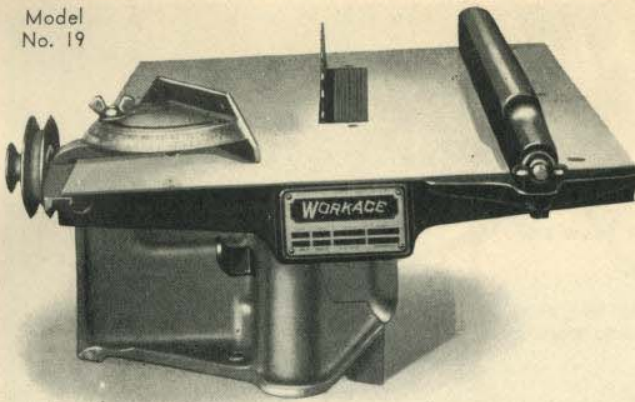


Interior Construction
Guards open showing wheels. Table tilted 45°.

WORKACE Circular Saws

— 2 MODELS —

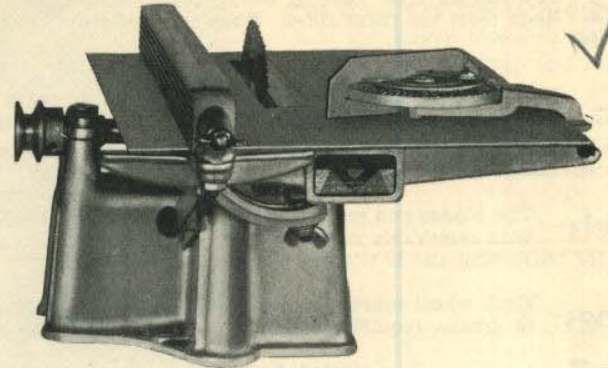
Model
No. 19



MODEL NO. 19

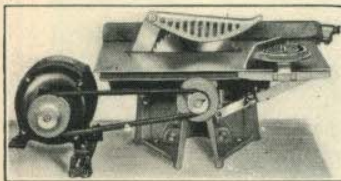
{ No. 19 complete as shown above including cross cut and rip fences, 8" blade, raising and lowering device, lower guard and pulley. }

Model
No. 32



MODEL NO. 32

{ Complete as shown including 6" blades, rip and cross cut fences, pulley, lower guard and raising and lowering device. }



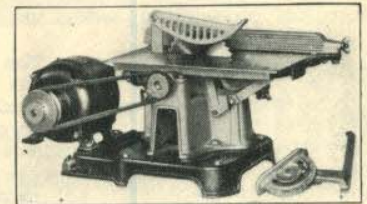
Floating Drive

Side view of Model No. 19: shows Splitter and Hood Guard in position, also application of Floating Motor Drive (patent applied for). Sawing requires power—have ample power by using a No. 19 with floating motor drive.

Floating Drive

Patent Applied For

Side view of Model No. 32 showing Splitter & Hood Guard in place. The saw is mounted on Sub-base (No. 4407) Sub-base provides brackets for mounting Floating Motor—the assembly makes a compact portable unit — convenient to take wherever you have a job.



No. 4407 Sub Base

FOR MODEL NO. 32

Extra equipment, convenient to mount No. 32 Saw and floating motor—makes compact portable unit.



Specifications for Models

	No. 19	No. 32
Depth of cut, max.....	2 1/4"	2"
Width between rip fence and blade.....	6 1/2"	6"
Width between cross cut fence and blade.....	6 1/2"	5"
Diameter of blade.....	8"	6"
Diameter of arbor.....	5/8"	5/8"
Size of table.....	14"x18"	11"x14"
Maximum Width of Cutter.....	15/16"	7/8"
Net weight, lbs.	40	20
Shipping weight, domestic, lbs.	55	30
Shipping weight, export, lbs.	80	50
Export cubic measure cubic feet.....	3	2
Code Word	WASAW	ACESA

The Workace Saw Tables are designed for maximum service at low initial and maintenance expense. The best bearing for this speed and heavy duty is high grade bronze. Saw arbor is heavier than usual, 5/8". Greater cutting capacity is obtained by use of steel table which does not waste the usual 1" of blade diameter taken by cast iron. Blades, dado heads, and cope heads are priced in proportion to diameter, therefore you save in blades with Workace. Steel tables will not warp, you can depend on Workace for accuracy, always.

Capacity: No. 19 cuts 2 1/4" deep, 15/16" wide. Capacity between cross cut or rip fence and blade 6 1/2". No. 32 cuts 2" deep, 7/8" wide. Capacity between rip fence and blade 6"; between cross cut fence and blade 5".

Drive: "V" Belt Drive. A two-step pulley 1 5/8"x3 3/8" provided with No. 19 to supply several spindle speed when using accessories. "V" pulley 1 5/8" provided with No. 32.

Saw Arbor: Both No. 19 and No. 32, steel, hardened and accurately ground. Extra heavy. 5/8" diameter, to accommodate dado and cope heads without breakage and to prevent accidents common with smaller diameters.

Bearings: Bronze is conceded to be the most satisfactory bearing for speed and heavy duty. Both No. 19 and No. 32 equipped with high grade bronze bearings.

Fences: Rip fences on No. 19 and No. 32 run full length and clamp to back and front of table to prevent springing. Adjustment provided to keep fence parallel with blade. Fence can be used on either side of blade. Cross cut fences; on No. 19 die cast graduated by degrees, can be used on either side of blade; on No. 32 graduated in 5 degrees; used to right of blade. These fences run on rails in side of machine. There are no grooves in table to wear or to interfere with accurate setting of rip fence.

Saw Blades: No. 19 takes 8"; No. 32, 6" diameter blades. Combination cross cut and rip tooth blade furnished with machine. Other types of blades, dado and cope heads available, see next page.

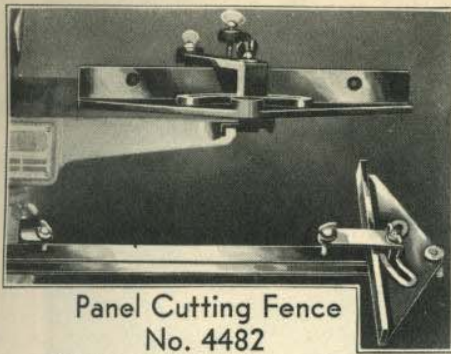
Tables: Heavy gauge steel plate instead of cast iron. Will not warp and cause inaccuracies in cutting. Not as thick as cast iron, therefore greater capacities from blades. Removable throat pieces provided to accommodate dado and cope heads. Tables on both No. 19 and No. 32 raised and lowered by convenient lever, tilt 45°, lock securely.

Guard: Both models regularly equipped with built-in guards to cover blade below table Hood Guard and Splitter shown here available at small additional charge.

Equipment: Both No. 19 and No. 32 furnished complete as described above including cross cut and rip fences, combination tooth blade, "V" pulley, lower guard.



Hood Guard and Splitter
No. 2962 For Model 19
No. 4446 For Model 32



**Panel Cutting Fence
No. 4482**

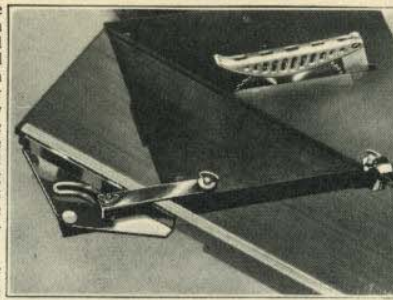
Ripping or cross cutting panels or stock which does not fit between the regular fences of a saw table can be made a simple job or as complicated, difficult and expensive as you wish to make it. We recommend the simple, workman-like methods—the quicker, less wasteful of time and material, and less expensive. Suppose you wish to cut a 24"x24" panel out of a 24"x72" piece—slide the Panel Cutting Fence #4482 into the rail cast in the side of the Workace Saw Table #19.

lay the panel on saw table, line up the point at which you wish to cut with the saw blade and then clamp the 24"x72" panel between the two clamps, one in the head and the other at the far end (which is adjustable for any width.) You can support the panel out at the far end to the right. After you have clamped the panel to the Panel Cutting Fence simply slide the stock thru the saw. The rail will guide the Panel Cutting Fence accurately.

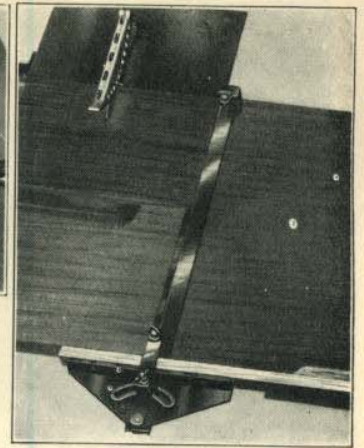
You need not waste a lot of time assembling various machine parts—handle this simple job on the Workace Saw #19, no tedious job of aligning various parts.

Using #4482 Panel Cutting Fence you can cut off a piece of panel in one operation—any length. Simply lay a straight side against #4482 Fence. You push the stock immediately in front of the blade—no see-sawing trying to keep stock against a distant fence.

For cross cutting and at any angle, simply clamp stock as shown in cut #2. The Panel Cut-

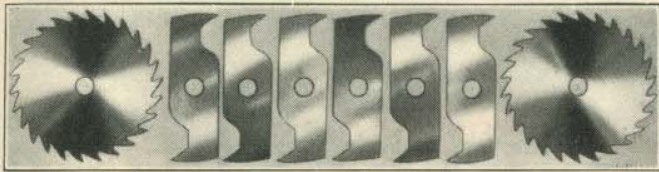


ting Fence holds stock rigidly. For tapering, for instance, when cutting sides of a tapered waste basket, set the fence at correct angle, clamp the stock to Fence #4482 and guide thru Saw. You can cut the four pieces at one time.



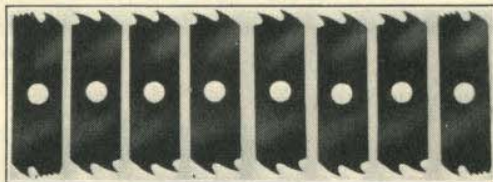
#4482—complete as shown above (adjustable 45 degrees either way), clamps, rail, 28" long, heavy gauge steel. Shipping weight 16 lbs. Code PACFE.

NOTE: For convenience we suggest screwing piece of hard wood to fence lengthen face as shown. At outer end fasten a strip at right angle; this will support stock.



Dado Heads 5" dia. No. 4436; 6", No. 4650

Dado Head illustrated comes in two diameters, 5" for Saw Model #32; cut 1 1/2" deep; 6" for Model #19; cut 1" deep. Both heads are made up of two outside cutters 1/16" thick and 6 fillers, each 1/16" thick. Both heads cut 1/2" wide; for additional width order additional fillers. Stock Numbers: 5" dia. outside cutter #4437; fillers #4438; 6" dia. outside cutters #4651, fillers #4652.

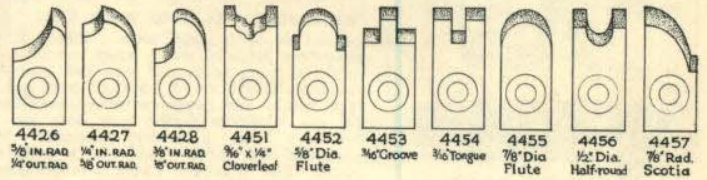
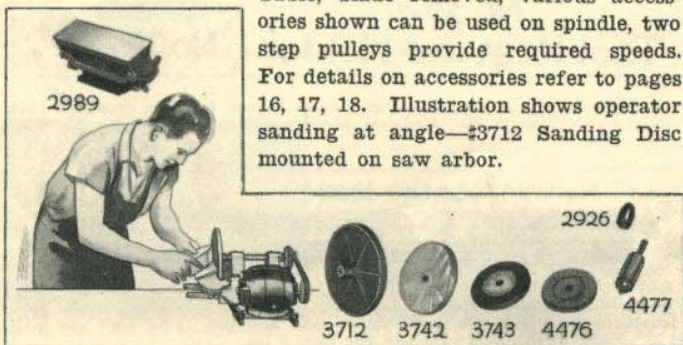


Dado Heads 5" dia. No. 4644; 6", No. 4647

5" head for #32 cuts 1 1/2" deep; 6" for #19 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 #4645; fillers #4646; 6" dia. outside cutters #4648; fillers #4649.

Accessories for No. 19

Table, blade removed, various accessories shown can be used on spindle, two step pulleys provide required speeds. For details on accessories refer to pages 16, 17, 18. Illustration shows operator sanding at angle—#3712 Sanding Disc mounted on saw arbor.



4426 4427 4428 4451 4452 4453 4454 4455 4456 4457
 3/8" IN. RAD. 1/4" IN. RAD. 3/8" IN. RAD. 3/8" x 1/4" 3/8" Dia. Flute 3/8" Groove 3/8" Tongue 7/8" Dia. Flute 1/2" Dia. Half-round 7/8" Rad. Scotia



No. 4425
COPE
HEAD

Straight shaping, groove and tongue, half rounds, quarter rounds, clover leaf, in fact any shape moulding can be cut on models #19 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 #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, #4450 are 2"x7/8"x3/16".

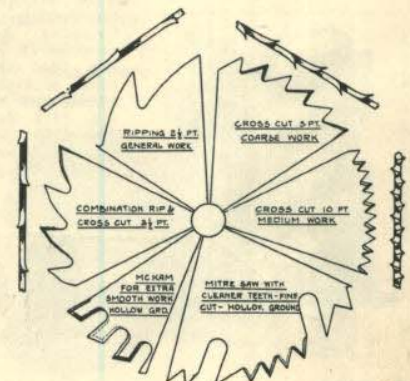
Circular Saw Blades

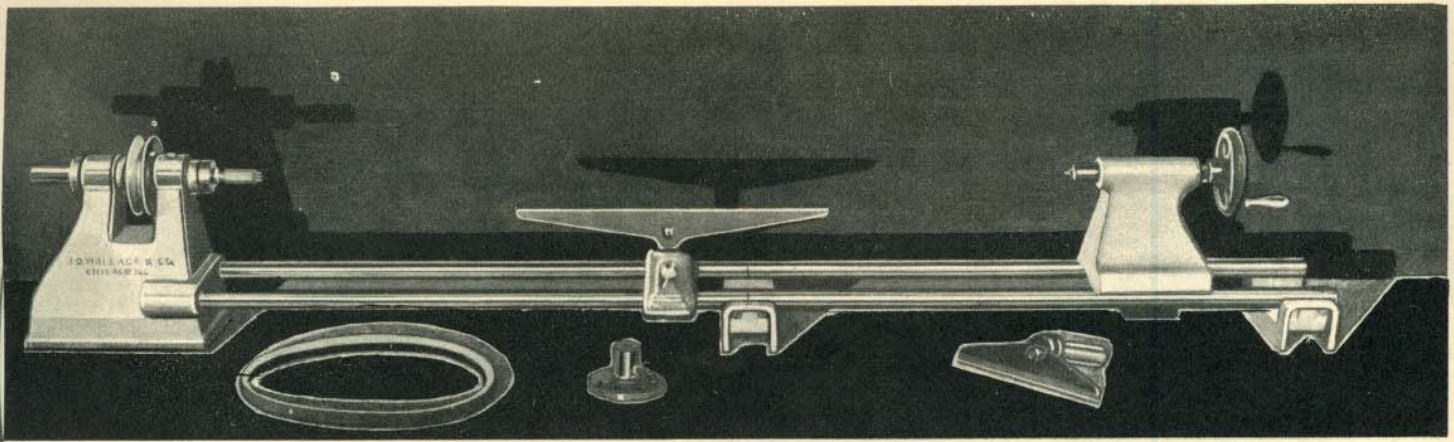
Fast, accurate, smooth cutting depends, to a great extent, on the quality and condition of your saw blades. Use good blades and have several sharp ones on hand ready to replace dull blades. Several types available—COMBINATION, with which you can do cross cutting or ripping; RIPPING, which are designed for ripping and naturally rip faster and require less power than combination blades for ripping; CROSS CUT, designed 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 #19	#32
Combination rip and cross-cut 3 1/2" pt.	#3792	#4433
Ripping, 2 1/2 pt. general work	3796	4434
Gross cut 5 pt.	3797	4435
Mitre saw, smooth finish	2094	4449
Mckam extra smooth rip or cross-cut	2095	

Resharping Service

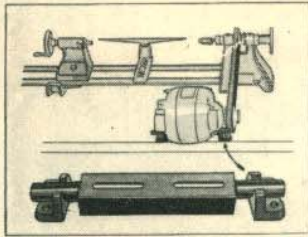
For the convenience of our customers who know that the length of service and satisfactory results depend on how a blade is resharpened, we maintain a department to condition your blades. For Filing, Setting and Gumming blades, 75c. One day service—mail your blades to Chicago.





WORKACE LATHE

MODEL NO. 30



FLOATING DRIVE

Patent Pending—(See Page 3)

THE LATHE is the most fascinating machine in the home work shop. It does work that you cannot do with hand tools. Chuck in a shapeless piece of wood, snap the switch, apply turning tools and you can quickly fashion out ash trays, baseball bats, table legs, knobs and countless other novelties. In the Workace Lathe you now get a full size lathe, a husky, precision tool equipped for three speeds at a popular price. The Workace Lathe was designed for commercial work—and it is the most popular tool in the home shop.

Lathe Bed: The Lathe bed is made of heavy $\frac{3}{4}$ " steel rods. This material was selected because of its extreme accuracy, permitting **SAFE**, easy adjustment, and accurate setting of tail stock and tool rest holder. With this material it is possible for us to produce a lathe at this price and capacity with no sacrifice in quality.

Drive: Two 2-step pulleys are provided; one mounted in the headstock, the other mounted in the motor shaft. These pulleys permit three speeds. We recommend mounting the motor behind the lathe in floating motor brackets shown in this catalog.

Headstock & Tailstock: Headstock and Tailstock are heavy cast iron, accurately machined. Headstock provided with double end spindle; rear spindle for face plate work. Tailstock provided with hand wheel and locking device.

Bearings-Lubrication: High grade bronze bearings are used in the headstock—the most satisfactory type of bearing for the high speed at which this machine operates and for accuracy. Ball thrust bearing provided. Lubrication by means of convenient oil holes.

Screw Chuck: The Screw Chuck mounted on rear in above illustration can be used also on front spindle.

Spur Center: An accurately fitted spur center is provided with the Workace Lathe.

Tool Rests: 6" and 12" tool rests with 1" shanks and tool rest holder are provided.

Equipment: Lathe is complete as described above and includes "V" Belt No. 2939, 39" in length.

SPECIFICATIONS

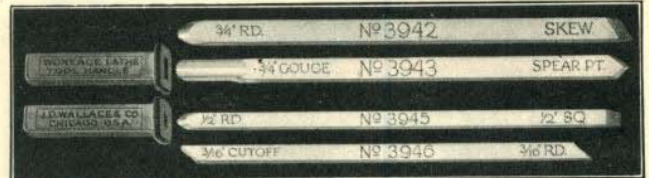
Maximum capacity over tool rest holder, dia.	6"
Maximum capacity over rods, dia.	8 $\frac{7}{8}$ "
(Unlimited capacity on rear spindle)	
Maximum distance between centers	36"
(Greater length possible; add lathe rods to bed)	
Speeds with 1800 r.p.m. motor	900, 1800, 3600 r. p. m.
Height of Lathe, overall	8"
Length overall	50"
Weight, net 36 lbs.; domestic ship. wt. 39 lbs.; export ship. wt. 60 lbs.; 3 $\frac{1}{2}$ cu. ft.	
Code Word	ACELA

LATHE ACCESSORIES

Your **WORKACE LATHE** may be used for Sanding, Boring or Drilling, Buffing and Grinding. Accessories shown here; details on page 16. Two Collars No. 3722 and Nut No. 2045 should be ordered when using these accessories on **WORKACE LATHE**. Accessories shown—No. 2989 Work Table, No. 3712 Sanding Disc, No. 3742 Buffer, No. 3743 Grinder, No. 4476 Wire Brush, No. 4477 Drill Chuck. See pages 16-18.



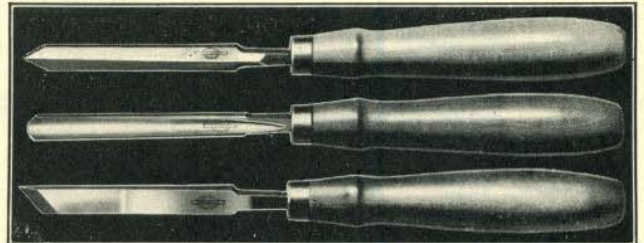
Model No. 30—Capacity 6" dia. x 36" center. Includes head stock as shown, tail stock; 6" and 12" tool rest; two section lathe bed; tool rest holder; "V" Belt 39" (No. 2939); and screw chuck and spur center.



WORKACE LATHE TOOLS

Professional Length—Complete Set Shown Above No. 3948

New idea in lathe tools, originated by Wallace. Gives you professional length tools with handle 16"; safer, easier to use, economical. Made of high grade carbon steel, tempered. Semi-soft rubber handles fit hand, makes guiding too easier. Set No. 3948 Ship. Wt. 2 $\frac{1}{2}$ lbs.
 3940 Rubber handle for $\frac{3}{4}$ " tools; 3941 handle for $\frac{1}{2}$ " tools.
 3942 $\frac{3}{4}$ " skew and $\frac{3}{4}$ " round. 3943 $\frac{3}{4}$ " Gouge and spear point.
 3945 $\frac{1}{2}$ " round and $\frac{1}{2}$ " square. 3946 $3/16$ " cut off and $3/16$ " round.
 3944 $\frac{3}{4}$ " Turning tool, blank, untempered.
 3947 $\frac{1}{2}$ " Turning tool, blank, untempered.

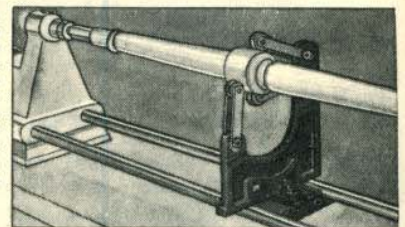


ACE LATHE TOOLS

Illustrated 1 SKEW; $\frac{1}{2}$ " TURNING GOUGE; $\frac{1}{2}$ " PARTING TOOL. Various sizes also SPEAR POINT and ROUND NOSE tools listed below. 6 $\frac{1}{4}$ " Maple handles, brass ferrules. Overall 11" and 12".

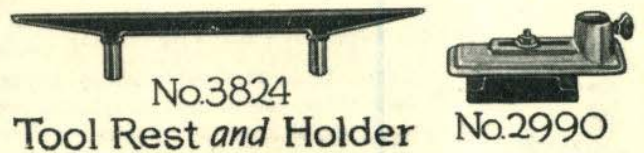
No. 4460 Complete set.

- " 4461 Skew, $\frac{1}{4}$ "x4"
- " 4462 Skew, $\frac{1}{2}$ "x4"
- " 4463 Skew, $\frac{3}{4}$ "x5"
- " 4464 Skew, 1"x5"
- " 4465 Spear Pt. $\frac{1}{4}$ "x4"
- " 4466 Spear Pt. $\frac{1}{2}$ "x4"
- " 4467 Rd. Nose $\frac{1}{2}$ "x4"
- " 4468 Gouge $\frac{1}{4}$ "x4"
- " 4469 Gouge $\frac{1}{2}$ "x4"
- " 4470 Gouge $\frac{3}{4}$ "x5"
- " 4471 Part. Tool $\frac{1}{2}$ "x4"

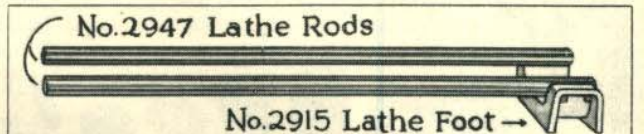


No. 4475 STEADY REST

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.



Long tool rest (24") available at slight extra charge for long turnings. Has two shanks. Ship. wt. 6 lbs. Requires additional Tool Rest Holder, No. 2990. Ship. wt. 4 lbs.



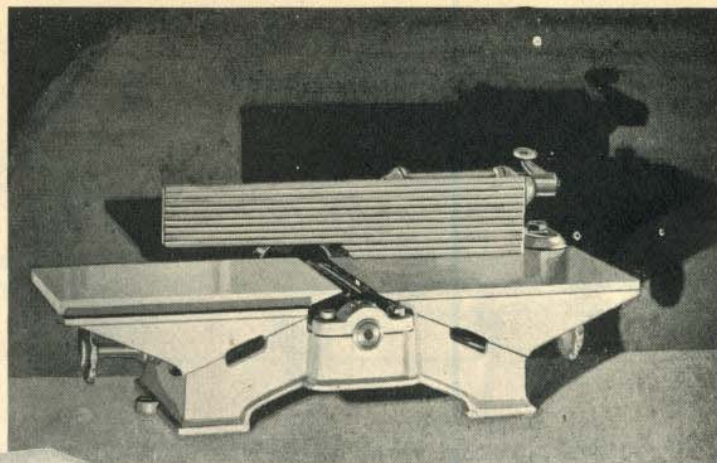
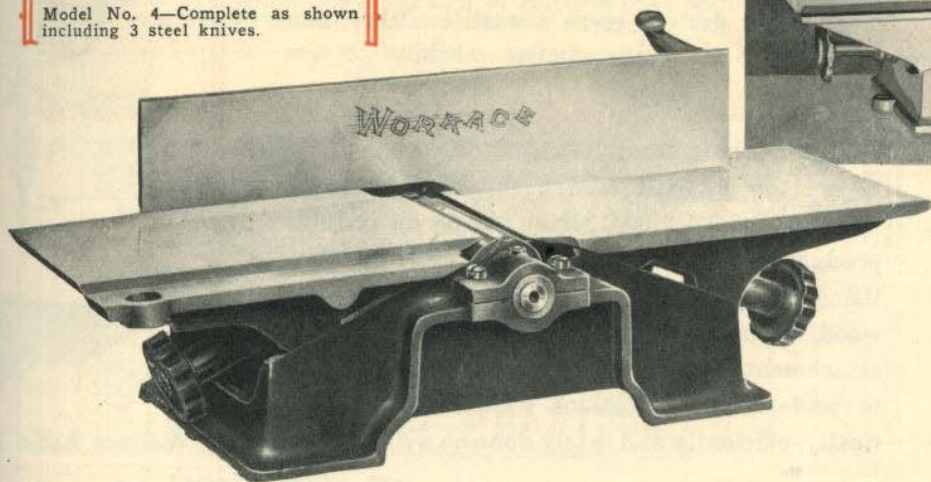
To lengthen lathe bed add pairs lathe rods and one lathe foot per pair. Rods 22" long. Ship. wt. 2 rods and one foot, 9 lbs.

WORKACE 4" PLANERS

Available in 3 models—two sizes

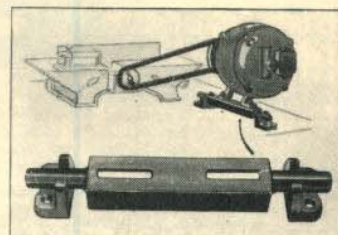
A good planer or jointer is an essential tool in any shop. It finishes a job in a manner almost impossible by hand—saves time and considerable hand labor and tedious work.

Model No. 4—Complete as shown including 3 steel knives.



Model No. 31—Complete as shown including 2 steel knives.

Floating
Drive for
Workace
Planers
Patent Pending



Capacity: Models No. 4 and 31 will joint or plane stock 4 inches wide. Model No. 4 will rabbet $3/16$ " deep; model No. 31, $1/4$ " deep. The infeed tables are quickly set to proper depth by means of hand wheel and screw, for rabbet, bevel or depth cut. So constructed no locking necessary. Outfeed table adjustable quickly for chamfer cut.

Drive: A "V" pulley $1\frac{1}{2}$ " dia. provided with each model "V" Belt drive, especially when used with Wallace Floating Drive principle is very efficient. The Workace No. 4 Planer is available with directly connected $1/4$ H.P. motor (Model No. 4-M). Motor housing designed to fit on frame of machine—a compact unit, no base necessary.

Bearings: A planer must perform accurately; it must also operate at a high speed. Engineers agree that the best bearing for such conditions is high grade bronze, therefore, large high grade bronze bearings, oil grooved are used in our models No. 4 and 31. Oilless bearings require greater limits, good only for slow speeds. Only the most expensive ball or roller bearings can nearly approach the accuracy and satisfaction you will obtain from high grade bronze.

Cutterhead: Circular safety cutterheads are used in both models No. 4 and 31—both one piece solid steel accurately machined, balanced, slotted for knives. Hardened screws hold knives in place.

Knives: Best quality tempered steel, proven over years best for this purpose.

Tables: Mounted on accurately machined inclined ways. Cannot get out of alignment. Both tables adjustable by convenient hand wheels. Surfaces ground with extreme care to limits .005"; heavily ribbed to maintain accuracy.

Fence: Simple construction—easily and quickly set to 45° . No wrench needed, controlled by lever. Moves forward for rabbetting. We recommend using a protractor in setting fence to angle—the only sure method. Fence will not tilt back, thus avoids pinching of stock and accidents.

Guard: Wallace Flap Type Guard available at small extra charge. Guard, aluminum, action controlled by spring, opens as stock is fed through—keeps unused part of knives covered. Stock numbers, Guard No. 2980 for Models No. 4 and 4M; Guard No. 2794 for Model No. 31.



KNIFE JOINTER

Part No. 2799

With the Knife Jointer you can keep a keen cutting edge on jointer 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.

SPECIFICATIONS OF MODELS

	No. 4	No. 4-M	No. 31
Length of knives.....	1"	4"	4"
Number of knives (No. 18).....	3	3	2
Maximum depth of cut.....	$3/16$ "	$3/16$ "	$3/16$ "
Length overall.....	20"	20"	15"
Cutterhead speed, r.p.m.....	3600	3600	4000
Size of motor, h.p.....	—	$1/4$	—
Net weight, lbs.....	28	66	15
Domestic shipping wgt.....	36	84	17
Export shipping wgt.....	68	95	23
Cu. measure for export—cu. ft.....	2	$2\frac{1}{2}$	2
Code Word.....	WAPLA	*PLACE	ACEPL

* Using the word alone indicates Model 4-M with 110, A.C. 60 cycle, single phase motor. If other current and voltage required, specify.

THE 4" Planer or Jointer was our first machine—it was the first portable woodworking machine. Almost twenty years ago these 4" Planers by Wallace began to appear on the benches of pattern makers, of cabinet makers, assembly men and carpenters. Some twenty thousand of this one size—Model 4-M—will be found in industry at the elbows of craftsmen, men who demand ACCURACY, QUICK SET-UP, SPEED. We are proud of the record of this Wallace product in industry and equally proud of the genuine satisfaction both the No. 4 and the No. 31 are giving in the hobby shop.

MODEL 4-M

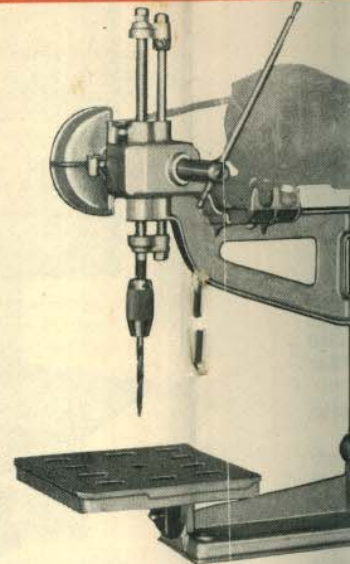
Illustration shows $1/4$ h.p. motor directly connected to Planer by means of a specially designed motor frame. Motor and planer are single unit, no base required. Convenient to move from job to job, sets on bench alongside of worker, saves hand work and walking to machine. Motor operates at 3600 r.p.m., directly connected to cutterhead by flexible coupling. Quotation includes Planer complete, $1/4$ h.p. special motor, cord and plug. Motors for 110 or 220 D.C. or A.C., 50 or 60 cycle, single phase available. Guard extra.



» » » WORKACE RADIAL DRILL

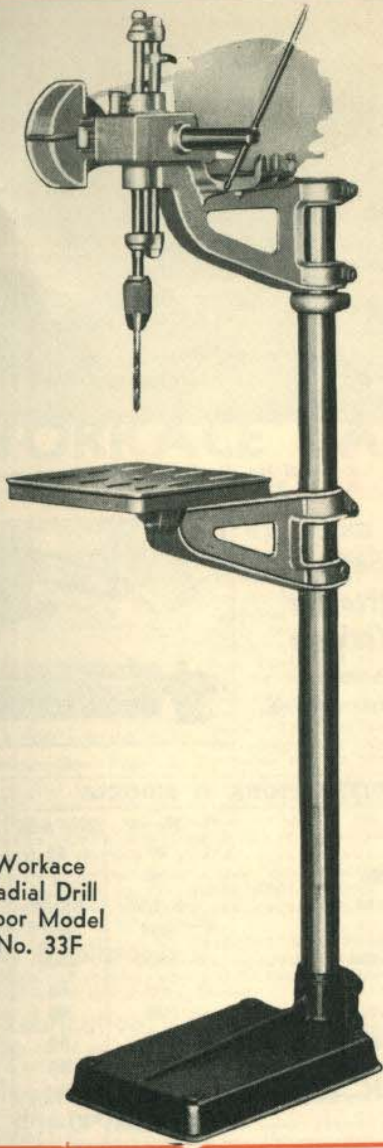
Out of 20 years manufacturing experience backed by the finest production equipment, we now offer a new type of Drill Press for the home shop worker and small industrialist: The Workace Radial Drill with larger sizes, greater weight, more rigid design, more versatile utility and lower price than any similar machine on the market.

The Workace Radial Drill is offered in three types; the BENCH Model, the WALL Model, and the FLOOR Model which satisfy all possible production requirements. Attachments for mortising are available as well as drills and bits for wood, metal and composition materials. The attachments which we offer equip the machine to perform all operations which can be practically, efficiently and safely done on a drill press.



Workace Radial Drill—Bench Model

Workace Radial Drill Floor Model No. 33F



Do More Work and Better Work on t

Floating Motor Drive: A standard $\frac{1}{4}$ h. p. 2-step pulley is placed in suitable brackets on top of the radial arm and drives the spindle thru a short, straight belt and a pair of accurately cut bevel gears. This is the most convenient, efficient and economical drive ever applied to a drill press. The motor is not fastened permanently to the machine, but may be lifted off in an instant for use on other Workace Machines. Thus you save the price of a motor when you buy the Workace Radial Drill.

Spindle Adjustment: The spindle is fitted with a depth stop and a separate set screw to lock it in any fixed position for routing or grinding. Depth graduations in $\frac{1}{4}$ " steps are marked on the spindle and easily read from the front of the machine.

Special standard chucks with straight eter. For t key chucks a small extr

Specifications

	Bench Model
Overall height	29"
Table travel	4 $\frac{1}{4}$ "
Spindle travel	10 $\frac{1}{2}$ "
Maximum distance table to spindle	13"
Distance center of spindle to column	1 $\frac{1}{2}$ "
Maximum chuck capacity	10x10"
Table size	2 $\frac{1}{2}$ "
Column diameter	(700, 1050)
Spindle speeds with 2 standard pulleys (2)	(1350, 1950)
	(850, 1650)
	(2700, 3350)
Spindle speeds with 3 extra pulleys (3)	12x22"
Bench or floor space	67 lbs.
Net weight	84 lbs.
Shipping weight	BRADI
Code	

Spindle: The standard spindle of extra large diameter rotates freely in well lubricated bronze bearings of ample size, the same kind of bearings as used on the finest and most expensive drill presses that operate at the speeds required for this machine.

Spindle Speeds: Two separate pulleys are slipped on keys and locked on the drive shaft, when belted to the 2-step motor pulley, they give four spindle speeds of 700, 1050, 1350 and 1950 R. P. M. These four speeds conform with the standards set by all engineering authorities for drilling in metal with carbon drills up to $\frac{1}{2}$ " in diameter. Three special pulleys may be purchased as extras giving four additional speeds of 850, 1650, 2700 and 3350 R.P.M. These speeds conform to the standard set for high speed drills up to $\frac{1}{2}$ " diameter. All these pulleys are covered by a simple cast iron guard. Other pulleys may be secured to give any speeds necessary to satisfy your particular requirements, but we recommend that you do not use any drill press for work requiring speeds that are hazardous to yourself and destructive to your machine.

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.



Mortising Attachment

Maximum chisel size	2 $\frac{3}{4}$ " chisel.
Maximum distance chisel center to column	
Maximum distance chisel to fence	
Maximum distance between table and bottom	
Size of fence	
Weight	
Code	



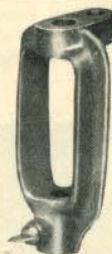
No. 4519. V-Block Jig for holding round stock and small pieces. Has machined centering pin, fits in hole center of table. Ship. wt. 2 lbs.



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

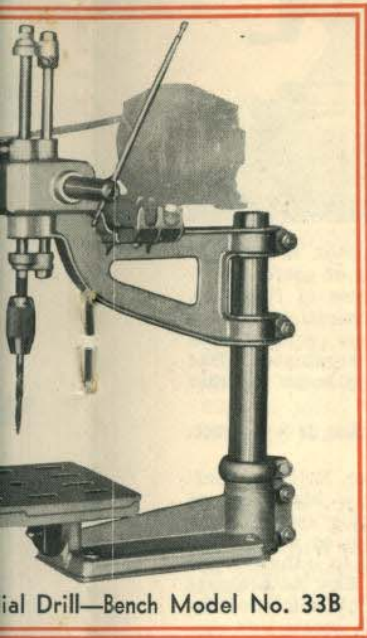


No. 4561. $\frac{1}{2}$ " Drill Chuck, screw type, self centering. Ship. wt. 1 lb.



No. 4580. Mortising Attachment handles chisels up to $\frac{1}{2}$ " square. Shipping weight 3 lbs. Chisels and bits priced on page 18.

WORKACE RADIAL DRILL « « «



Radial Drill—Bench Model No. 33B

The exclusive floating motor drive (patent pending) enables you to use a single motor for this in addition to all your other Workace machines. The motor is simply placed on a suitable bracket without fastening of any kind, and drives the drill spindle thru a short straight belt with no side bends, at such a high efficiency that a 1/4 h.p. motor is sufficient to do work that requires a 1/2 h.p. motor with other types of drive. As it runs in a horizontal position you can use an inexpensive standard motor, avoiding inefficient vertical type motors which are subject to undue bearing trouble and commutator breakdowns due to oil seepage from the upper bearing.

No power eating idler pulleys or long twisted belts are needed for the Workace Radial Drill, and all speed changes are made in an instant without stopping the motor if you so desire. No trouble is experienced in installing the motor, because you use the same one for all your Workace units, changing from one machine to the other without fastening.



Workace Radial Drill Wall Model No. 33W

Work on the WORKACE Radial Drill

The spindle is fitted with a set screw for routing in 1/4" and easily changed.

Special Spindle: The standard spindle takes our standard chuck of the grip type for use with straight shank drills up to 1/2" diameter. For taper shank drills and precision key chucks we supply a special spindle at a small extra cost.

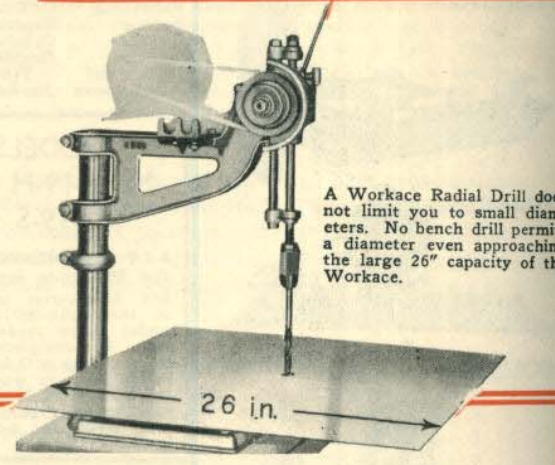
Radial Arm: Clearance between the spindle and the column is 13", more than twice that of any other drill press sold at any price. The radial arm is sturdy and braced to stand the strain resulting from its extra long span. The arm can be swung sidewise away from the table and in such positions can drill into materials standing on the floor. An adjustable collar on the column facilitates changes in arm positions, thus the Workace Radial gives you unlimited capacity for doing every conceivable drilling or boring job.

Column: The column of all models is a solid steel bar 2 1/8" in diameter, the heaviest and stiffest support ever made for a bench drill press.

Table: The heavy cast iron table is 10" square and tilts 45° both ways, with pin to locate it square with the drill spindle. The support for the table is located only 1" from the drilling point, making it exceptionally rigid and avoiding the springing commonly found in tables supported at the edge.

Mortising Attachment: Our simple and inexpensive mortising device is an ideal attachment for the Radial Drill. Because of the great range of adjustments in this machine, mortises can be made not only in small parts laid on the table, but the head can be swung away to mortise as far as 13" from the edge of any large bulky piece of work extending to the floor.

Accessories: To fit the Workace Radial Drill we offer a cone center, a V-Block and a drill press vise, also drills for both wood and metal up to 1/2" diameter.



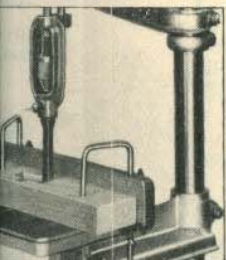
A Workace Radial Drill does not limit you to small diameters. No bench drill permits a diameter even approaching the large 26" capacity of the Workace.

Specifications

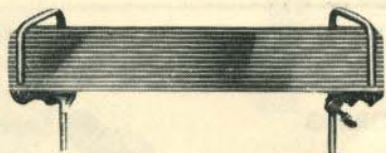
	Bench Model	Wall Model	Floor Model
.....	29"	61"	65"
.....	4 1/2"	33"	36"
.....	10 1/2"	4 1/4"	4 1/4"
.....	13"	35"	39"
.....	13"	13"	13"
.....	1/2"	1/2"	1/2"
.....	10x10"	10x10"	10x10"
.....	2 1/8"	2 1/8"	2 1/8"
.....	(700, 1050)	Same	Same
.....	(1350, 1950)		
.....	(850, 1650)	Same	Same
.....	(2700, 3350)		
.....	12x22"	12x25"	12x22"
.....	67 lbs.	115 lbs.	119 lbs.
.....	84 lbs.	155 lbs.	159 lbs.
.....	BRADI	WRADI	FRADI

Mortising Attachments

.....	1/2"
.....	13"
.....	3 1/2"
.....	4"
.....	2 1/2 x 10 3/4"
.....	5 1/2 lbs.
.....	RAMOR



It handles chisels up to 1/2" Chisels and bits priced on



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

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

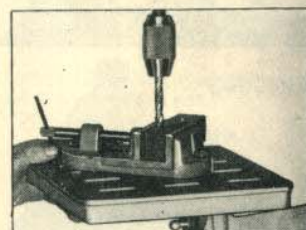


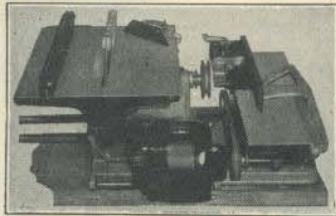
Pulleys 4510, 4511, 4513 to provide additional speeds explained under spindle speeds. Sizes and prices see page 17.

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



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". Ship. weight 5 lbs.





FLOATING DRIVE

—Patent Pending—

The motor of the Workace Woodworker is mounted, with a sliding fit, on a rod, as shown in the photograph above. The motor is shifted to the right for driving the planer and to the left for driving the saw, lathe and spindle attachments. The V-Belt is always tight, as the motor "floats," automatically adjusting the power to the load. Floating Drive multiplies the efficiency of your motor; changes in speeds and machines made easily and instantly. Designed by Wallace engineers; EXCLUSIVELY WALLACE.

Workace Woodworkers are complete woodworking shops. Eight machines are designed into one compact unit in each model. No machine interferes with the efficient operation of another—changing from one machine to another is simple, quickly done; with the Wallace Floating Drive you shift from one pulley set-up or speed to another instantly—a skillful piece of designing that gives you equipment for handling practically every wood-working operation at a very low cost.

The compactness of these models recommends them to the man whose space is limited.*

These two models are complete woodworking shops on one bench—each a single unit easily portable, moved to suit your convenience or put away.

* Space required only 5' x 28".

Model 419-H using a 1/4 h.p. motor, is ideal for the home shop. On it hundreds of useful novelties, experimental models, pieces of furniture, interior and exterior home decorations can be made in a fraction of the time required with hand tools; the drudgery is eliminated. Dad and his boys spend many happy hours together with a 419-H.

Model 419-S using a 1/2 h.p. motor, is a commercial as well as home shop unit.

TO USE Lathe, Sander, Grinder, Drill and Buffer remove saw table and saw blade, mount these accessories on saw spindle (see illustrations in lower left hand corner of this page). Work Table No. 2989 attaches to lathe bed for use with accessories. The Jig Saw Attachment No. 3763 attaches to saw spindle and uses circular saw table. To use lathe, screw live center on saw spindle.* Two two-step pulleys supply correct speed for each operation.

Many thousands of these models are in use.

* For lathe tools see page 8.

MODELS 419-H and 419-S

"Eight Machines in One" Perform These 24 Different Operations



MODEL 419-S

For rear view showing Floating Drive see model 419-P—page 13.

SAWING



PLANING



TURNING



POLISHING



GRINDING



- Cross Cutting
- Grooving
- Compound
- Mitre
- Straight
- Shaping
- Lock Corner
- Planing
- Rabbeting
- Buffing
- Ripping
- Beveling
- Groove and Tongueing
- Slotting
- Boring
- Jointing
- Turning
- Sanding
- Mitering
- Doing
- Moulding
- Drilling
- Tapering
- Grinding
- Double End
- Tenoning
- Jig Sawing

★3763 Jig Saw Attachment clamps to lathe rods, cam attaches to saw spindle. Uses sabre blades, works thru saw table shown below.

2984 Hardwood Bench. Center board slides out providing additional length to support lathe. Large tool drawer. Used only with models 419 H or S

MODELS No. 419-H and 419-S	MACHINE OR ACCESSORY		419-H	419-S	See Cat. Page
	419-H	419-S			
are combinations of the Workace machines and accessories indicated to the right in columns under these model numbers. For complete details on machines or accessories listed refer to page indicated in last column. Any item may be eliminated—take credit for full price quoted on item.	Workace Circular Saw	19	19	6	
	Saw Guard and Splitter	2962	2962	6	
	Workace Planer	4	4	0	
	Planer Guard	2980	2980	9	
	No. 30 Lathe, less headstock	2970	2970	8	
	Sanding Disc	3712	3712	16	
	Grinding Wheel	3743	3743	18	
	Drill Chuck 3/4"	2926	2926	16	
	Buffing Wheel	3742	3742	18	
	Work Table	2989	2989	16	
	Jig Saw Attachment	3763	3763	12	
	Motor Pulley, 2 step	3799	3790	17	
	V-Belt	3789	3741	17	
	Base with Floating Drive Brackets	2991	—	12	
	Hardwood Tool Bench	—	2984	12	
Base, Legs and Motor Bracket	—	2997	13		

419-H (no motor)	Net Wt. 121	Ship. Wt. 153	Exp. Wt. 200	Cu. Ft. 6 1/2	Code WABOR
419-S (no motor)	Net Wt. 203	Ship. Wt. 246	Exp. Wt. 346	Cu. Ft. 14 1/2	Code WASNY

JIG SAWING



BORING



SANDING



Workace Planersaw

Model No. 419-P

"Packs More Minutes" into your hour!

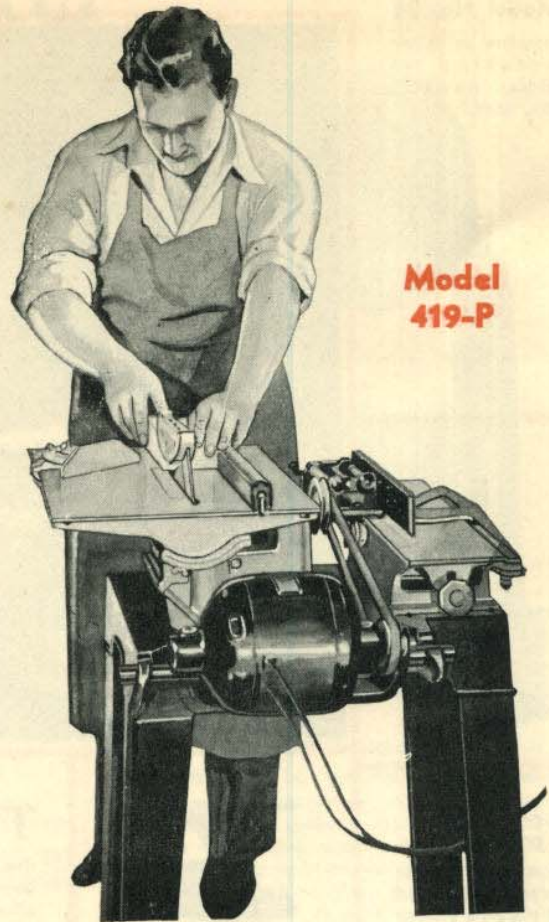
IN the commercial shop or the home shop the Workace Planersaw "packs more minutes into the hour"—its accessibility, quick set up, accuracy, and power enables you and your men to get more done per hour.

Portable: The Workace Planersaw is portable, you place it alongside the bench, "at the elbow" of the worker—saves walking to and from machines across the floor. A man is finished with any cut or joint in half the time required to travel to stationary machines.

Saves Hand Work: The Planersaw can be placed handy so that hours spent in hand work may be saved. A cut or joint, to a "hair line" in even small pieces can be made in the time it takes to get set to work with hand tools.

Quickly Set Up: All adjustments are quickly made—the saw to cut at any angle or compound, or any depth—the planer for various depths or to rabbet, bevel, chamfer, etc.

You will find the Workace Planersaw among the pattern makers in large and small shops, saving hand work; at the elbows of cabinet makers to save time; carpenters and maintenance and repair men take it out on the job or about the building. The Workace Planersaw gets work done and is so priced that it pays a handsome dividend month after month. **TRY IT.**



**Model
419-P**

Rear view of Model 419-P showing application of

Wallace Floating Drive

—Patent Pending—

The real satisfaction and pride in your selection of a piece of machinery comes when you put that tool to a severe test and it performs. Your demands have been anticipated by Wallace engineers. The Floating Drive adjusts itself to the load. The weight of the motor is distributed; the weight plus the reaction of the electrical condition set up when a load is placed on the machine acts downward causing the belt to hug the pulleys, making a most uniform belt tension at all times instead of throwing off or slipping as in cases where motor position is fixed. Floating Drive gives you maximum efficiency, maximum belt life, minimum strain on belt and bearings when idle—Workace machines and Wallace Floating Drive give you performance.

THE Workace Planersaw is a self contained floor type machine. The No. 19 Workace Saw and the No. 4 Planer have been skillfully designed into a compact, portable unit (27"x29"); no part interferes with the efficient operation of another. Wallace Floating Drive provides ample power—a fast cutting, accurate, and powerful unit—attractively priced.

No. 419-P is an assembly of the following units:

Workace Circular Saw.....	No. 19.....	details on page 6
Saw Guard and Splitter.....	No. 2962.....	details on page 6
Workace 4" Planer.....	No. 4.....	details on page 9
Planer Guard.....	No. 2980.....	details on page 9
Base, Legs and Motor Bracket.....	No. 2997.....	details on page 13
"V" Belt.....	No. 3741.....	details on page 17
"V" Motor Pulley.....	No. 3790.....	details on page 17
*Special Small Frame Motor, ½ hp. for 110/220, 60 cycle, 1 phase.....	No. 3899.....	details on page 17
Odd cycle motors.....	3896, 3898.....	details on page 17

Net Wt. Ship. Wt. Export Code

419-P with motor.....	181 lbs.	225 lbs.	10 cu. ft., 315 lbs.	WAPSA
419-P less motor.....	140 lbs.	172 lbs.	8 cu. ft., 260 lbs.	WAPUN

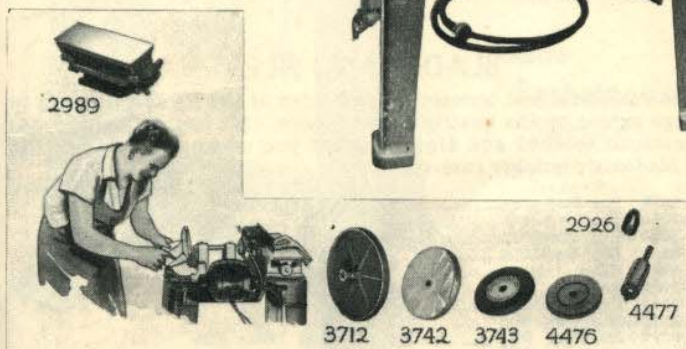
*MOTOR—A special Wallace G/E ½ hp. motor built into a small frame designed especially for Models 419-P and 419-S. Only ½ hp. motors of any other make can be used on these models.

Dado & Cope Head, Knives, Blades, shown on page 7.

Accessories for 419-P

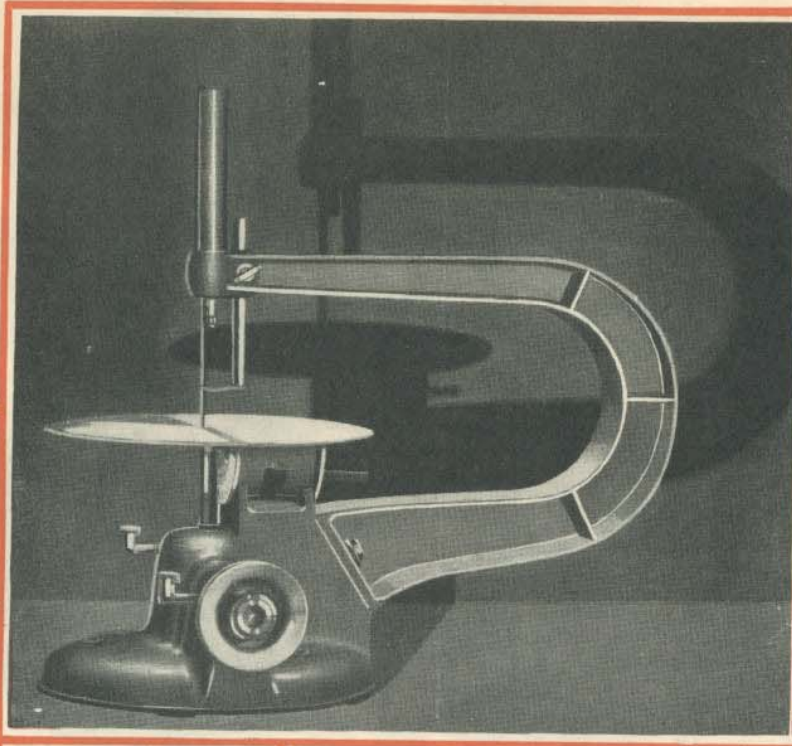
SANDER, GRINDER, BUFFER, BORER accessories are used on Model 419-P. The saw table is easily and quickly removed, the Sanding Disc, Buffer, Drill Chuck or Emery Wheel mounted on saw spindle. Tilting Work Table supported on two rods. Correct speeds available; floating motor shifts lining up proper pulleys. Details on accessories on page 16-18.

Two Stub Rods No. 2948 must be ordered to use Accessories.



Model No. 24

Complete as shown including two blades, numbers 3231, 3259.



WORKACE Jig Saw Model No. 24

Special Features

- ✓ REMOVABLE GOOSENECK
- ✓ UNIVERSAL TABLE—tilts 45° both ways.
- ✓ LARGE DIAL—accurately indicates angle.
- ✓ NO EXPOSED MOVING PARTS.
- ✓ UNIVERSAL HOLDER.
- ✓ RIGID—Fastens to bench at only one point, the base. Eliminates possibility of springing assembly out of line, a common cause of trouble and expense with jig saws having two supports, front and rear.
- ✓ EXCEPTIONALLY LOW PRICED, especially for a jig saw of this design and construction.



GOOSENECK REMOVED

shown at right; gives unlimited capacity for handling large work.



THE jig saw is one of the first machines the boy wants, it supplies that means of cutting out those toys and novelties his young mind conceives. It is a necessary tool in every man's shop, affording many happy hours and the means for a profitable business.

Every Shop Needs a Workace Jig Saw

Capacity: Stroke 1"; maximum cutting depth 1½". Distance between blade and gooseneck, 12". Gooseneck removable to give unlimited cutting capacity. Thin metal can be cut on the Workace Jig Saw.

Shafts: Heavy steel shaft, ground to extremely close limits.

Drive Construction: Crank, pin and cross head construction, each part carefully balanced, changes rotary motion into reciprocating motion smoothly and quietly. These metal parts are made of steel to assure maximum service.

Lubrication: All bearings and moving parts lubricated by two oil cups packed with felt wicking.

Table: 10" diameter, polished, heavy steel disc. Table tilts 45° right

and left. Mounted on large sectors which rigidly support table and make adjustment easy. Table locked into position by convenient lever.

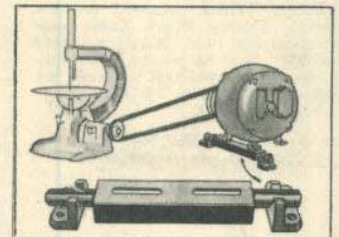
Dial: Large dial in front indicates exact degree table is tilted.

Gooseneck: Removable to increase range of work handled. Alignment pin which fits into tapered hole assures quick and accurate reassembly. Gooseneck is heavy ribbed one piece construction, designed to hold upper assembly in perfect alignment with lower reciprocating assembly—any twist in the gooseneck multiplies blade breakage and wear on machine.

Equipment: The Workace Jig Saw is furnished complete as described above with two blades, one each, 15 and 24 teeth.

FLOATING DRIVE

- ✓ FLOATING DRIVE (patent applied for). That efficient drive is applied to Model No. 24, providing more power, constant speed, no belt slippage and your Workace machines are absolutely independent of each other—each a unit, portable and convenient.



Specifications of Model No. 24

Stroke	1"
Maximum cutting thickness	1½"
Between blade and gooseneck	12"
Table tilts, right and left	45°
Diameter of Table	10"
Pulley size	3¼"
Correct Pulley Speed, R.P.M.	900
Power required, HP	¼
Net weight, lbs.	28
Ship. weight, domestic, lbs.	35
Ship. weight, export (4½ cu. ft.), lbs.	55
Code Word	JIGSA

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.

No.	Type	Width	Thickness	Teeth per inch	Length
No. 3230	Pin End	.118"	x .022"	x 10	x 5"
No. 3231	Pin End	.118"	x .022"	x 15	x 5"
No. 3258	Pin End	.035"	x .010"	x 24	x 5"
No. 3259	Pin End	.045"	x .010"	x 24	x 5"
No. 3784	Sabre	¾"	x .028"	x 15	x 4"
No. 3785	Sabre	3/16"	x .028"	x 9	x 4"
No. 3786	Sabre	¼"	x .028"	x 7	x 4"
No. 3238	Machine File	17/64"	Round file		
No. 3239	Machine File	7/32" x 9/64"	Pillar File		
No. 3241	Machine File	7/32"	Triangular File		

WORKACE 14 inch BAND SAW

MODEL NO. 14

THE band saw is one machine which requires the strictest adherence to details in design and construction—details that are learned in years of experience. This is especially true in the building of the smaller type of machine where failure to build in the required strength, to balance the vital parts accurately, to mount properly, grind and crown the tires, etc., may result in enormous expense to the owner in blade wreckage, waste of stock and time.

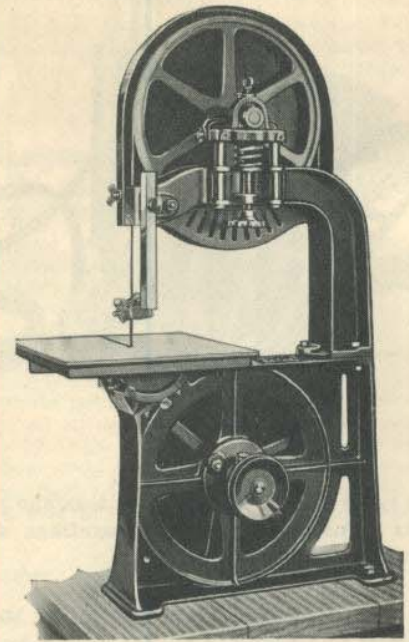
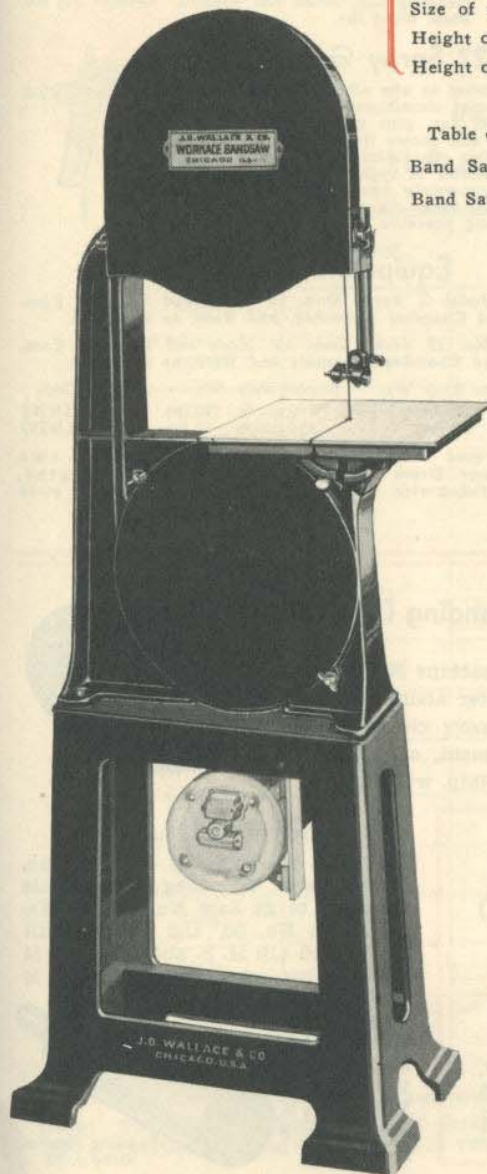
You are certain that all the details are taken care of in the Workace Band Saw—for back of this machine is the experience of an organization which has built 36" and 42" band saws which run at a blade speed of 2 miles per minute and in addition, have built and serviced the thousands of Wallace 16" Band Saws which have proven so successful in wood and metal work, production and exacting cabinet work.

We have built "service" into every hidden place and produced—not the cheapest—but a good band saw at a popular price, the greatest value per dollar invested and which you will operate at the minimum of expense—we guarantee your satisfaction with the WORKACE BAND SAW.

SPECIFICATIONS

Diameter of Band Wheels.....	14"
Maximum thickness of stock sawed.....	6"
Length of Blade.....	7' 7"
Correct speed of band wheels, R.P.M. (for wood).....	900
Diameter of pulley for wood cutting.....	5"
Diameter of pulley for brake band or metal cutting.....	8"
Size of table.....	13"x13"
Height of Band Saw only.....	40"
Height of Band Saw on stand.....	62½"

Table of Weights	Domestic Net Ship.	Export Ship.	Code
Band Saw only.....	90	133	6 cu. ft. 160 WOFOR
Band Saw and Stand.....	153	225	11 cu. ft. 280 WOFAS



Rear view of Workace Band Saw, model No. 14, without stand. Note the sturdy construction; the tensioning device in upper assembly—device mounted on two heavy steel rods, controlled by hand wheel, spring maintains tension and absorbs all shocks. Note large sectors on which table is tilted. It pays to buy machines that are built for lowest cost service by men of long experience.

Capacity: Between the gooseneck and the blade 14". Unlimited capacity to the right of blade. Stock 6" thick will pass the guide.

Drive: Regularly equipped with a 5" "V" pulley for belt drive from either counter-shaft or motor; an 8" "V" pulley is furnished to provide slower speed for cutting brake blocks, metals, etc. Order "V" belt No. 2939, 39" long and motor pulley No. 2776—2¼" dia. when operating from motor mounted on Wallace Floating Drive illustrated below.

Bearings: Fitted with large bronze bearings, lubricated by means of cups. Bronze is far more desirable for smooth operation and wear than the less expensive ball bearings.

Wheels: Die cast, 14" in diameter, treated to prevent distortion. Carefully balanced to assure a true running wheel and maximum service from saw blades. Wheels are flanged for rubber tires. Tires are crowned.

Tensioning and Tilting Device: Upper wheel and bearing assembly mounted on two rods and adjustable for blade tension by convenient hand wheel. Spring in assembly absorbs shocks without endangering blade. Assembly is mounted on a pivot so upper wheel may be tilted to properly track the blade. Construction especially heavy at this vital point.

Blade Resharpener Service

The life of your saw blades, smooth, quick, and accurate cutting depends on the method of sharpening setting and welding. To assure you utmost satisfaction and low cost, we maintain a conditioning service. Sharpening and setting 50c per blade; welding 25c. Cash with order.

Blade: Service from the blade depends on the construction of the machine, the blade itself and the operator. The Workace 14" Band Saw is carefully balanced, vibration eliminated to assure you of maximum service. Blades furnished are special steel and toothed to eliminate cracking. They are higher priced, of course, but they will give you much longer service and are cheaper in the end. We recommend purchasing Workace band saw blades for the best service.

Guide: A solid steel roller running on steel pin designed to avoid friction which creates heat and causes crystallization and breakage of blades.

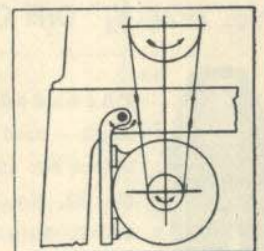
Table: Die cast 13"x13", machined to true surface for accurate cutting, heavily ribbed to prevent warping. Tilts 45 degrees.

Guards: Pressed steel. Completely cover both wheels. Blade travels in deep groove along gooseneck and is not exposed at any part except working area. Guards are easily assembled by thumb screw.

Equipment: The Workace 14" Band Saw is furnished complete as shown with a 5" or 8" "V" pulley for belt drive guards, special roller guide one blade and, if ordered, a substantial cast iron stand with Floating Drive bracket for motor. Motor extra, refer page 17.

FLOATING DRIVE

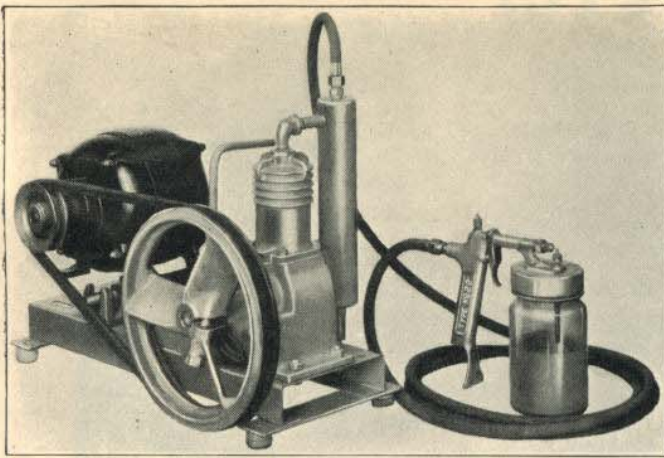
The illustration shows how the weight of the motor plus the reaction of the electrical condition set up when a load is placed on the machine acts downward causing the belt to hug the pulley, making for a uniform belt tension at all times by overcoming the natural tendency of the running belt to throw away from the pulley. This results in maximum driving efficiency, maximum belt life, minimum starting load, minimum bearing wear and minimum strain on the belt when idle.



WORKACE SPRAY UNITS

Electrically operated—portable

—Models B-1 and B-2



Illustrating Model B-2 with Binks No. 22 Spray Gun and Floating Motor Drive. (Motor, motor bar, pulley and belt, extra equipment.)

Both types B-1 and B-2 handle automobile primer coats, lacquers, all paints of normal consistency, varnishes, shellacs, stains, enamels, cold water paints and insecticides.

Model B-1 is equipped with a Binks Model X Spray Gun and is designed for the Master Painter, Decorator and the man who wishes to work fast and cover large areas. Model X is a large capacity gun, equipped to throw a flat or round spray at any angle.

Model B-2 is equipped with a Binks Model No. 22 Spray Gun—designed for general purpose spraying, a superior but popular priced unit.

Compressor No. B-23—One cylinder, air cooled, wick feed, bore 2", stroke 1 3/4", speed approximately 700 r.p.m., capable 45 lbs. pressure. Pulley, fan type spokes for cooling purposes. Complete unit includes air chamber which also serves as oil and water extractor. Wt. 19 lbs., ship. wt. 26 lbs.

Base No. B-24—Pressed steel base fitted with floating motor brackets, also handle to carry entire unit. Ship. wt. 2 lbs.

Floating Motor Drive—1/4 h.p. motor—the same motor you use on other Workace machines is set into brackets on base. This provides a highly efficient drive AND eliminates noise.

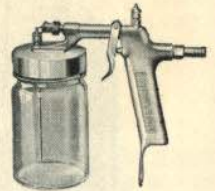


Model X Spray Gun

High grade pressure type spray painting gun produces a constant, smooth, perfectly atomized wide or narrow spray. Model X has a two finger trigger, comfortable pistol grip, balanced, light weight simple construction, easy to clean, because of removable air pressure plug not found in other types. Hose connections have standard pipe thread. Gun body located 3" above top of cup permits tipping gun without clogging. Operating pressure 30 to 35 lbs. Model X Spray Gun includes three nozzles—one for flat spray (horizontal or vertical); one for round spray; one to spray at angle to use on ceilings or floors without tilting cup. Cup, aluminum, leather gasket prevents leakage. Also includes cleaning tool, brush and wrench. Weight 3 1/2 lbs. Ship. wt. 6 lbs.

Model No. 22 Spray Gun

Is a special design far superior to any offered at this low price. Has a sturdy, cast aluminum cup holder. Standard Ball Mason Fruit Jar, pint capacity, has advantage of transparency and shows the amount of material in the cup. Separate containers easily available everywhere. The material is syphoned to the nozzle of the gun where extremely fine atomization (mixture of air and material) takes place. The spray is flat fan shape. Operating pressure 25 to 30 lbs. Wt. 4 lbs. Ship. wt. 6 lbs.



Equipment:

Model B-1 includes Model X Spray Gun, 10' Hose and Fittings, Compressor and Chamber Assembly, and Base, as described.

Model B-2 includes No. 22 Spray Gun, 10' Hose and Fittings, Compressor and Chamber Assembly and Base, as described.

Model	Net Wt.	Dom. Ship. Wt.	Export Ship. Wt.	Code
B-1	24	30 lbs.	2 1/2 cu. ft. 52 lbs.	BINKS
B-2	24	30 lbs.	2 1/2 cu. ft. 52 lbs.	BINTO

"V" Belt: No. 2939 is used with Floating Motor Drive —should be ordered, not included with machine.

Hose and Fittings: in two lengths, 10', stock No. B-25; and 20', stock No. B-26.



No. 2989 Work Table

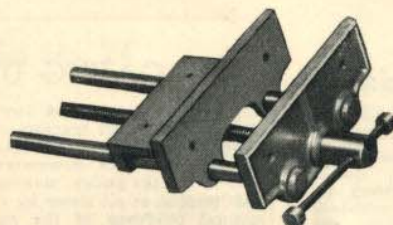
This Work Table is used in connection with Workace machines No. 19, No. 30, 419-H, S and P, when using these machines for Sanding, Grinding, Boring, etc. Table (8" x 3 1/4") tilts 45°. Attaches to lathe rods. Order 2 steel stub rods (No. 2948—5

lbs—25c ea.) to attach to saw if you do not have Lathe. Ship wt. 6 lbs.

No. 2926 3/8" Drill Chuck



Threaded for 5/8" shaft—used on machines No. 19, No. 30, No. 33, No. 419-H, S and P. Ship. wt. 1 lb.



No. 4480 Vice

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". Weight 15 lbs.; ship wt. 22; export, 1 cu. ft. 40 lbs.

No. 3712 Sanding Disc

Sanding Disc used on machine No. 19, No. 30, 419-H, S & P. 8" diameter aluminum. For use with sand paper or emory cloth. Paper or cloth glued on with cement, our No. 4643 or shellac. Weight 2 lbs. Ship. wt. 3 lbs.



Sanding Drums

No. 4477, 2" dia.—No. 4478, 3" dia. Both sizes 3" long; 5/8" hole threaded to fit Saw No. 19 and No. 32, Lathe No. 30, and Radial Drill No. 33 and 419 H. S. and P. Drum is solid rubber core, sanding sleeve is locked by expanding rubber between two washers. Wt. 1 lb. Ship. wt. 2 lbs.



Sanding Sleeves listed p. 18

MOTORS FOR WORKACE MACHINES

The quality and utility built into Workace machines can best be supplemented by General Electric driving motors. Everybody knows that G.E. motors are good motors, unquestionably reliable, produced by an unexcelled engineering organization, and backed by a nation-wide service.

In selecting the best motor for home or small shop use, G.E. engineers have made laboratory tests of the requirements of Workace machines and recommend for this service motors which have a proper balance between *low starting current, efficiency, cool running, and high maximum power*. G.E. motors are designed to give greatest possible maximum power without sacrificing any of the other characteristics that ensure satisfactory performance. For example, the G.E. 1/4 h.p. motor will actually deliver 2/3 h.p. for short periods, and is in fact as powerful as many of the motors rated at 1/3 h.p. by irresponsible manufacturers. Other so-called 1/3 h.p. motors take such high starting current that they cause trouble and complaints when used on a lighting circuit, and get so hot they soon burn out.

It will pay you to weigh carefully the advantages of using a brand new genuine G.E. motor in preference to a nondescript cast-off or orphan motor, which may have been made for some service of a different kind than you require, and therefore, will be incapable of giving you trouble-free operation of your home shop machines.

Installation of Motors: Even a good motor will appear weak when working through countershafts, line shafts, or fixed center belt drives, which waste a large percentage of their power. Motors should be belted to Workace machines in a manner that

ensures delivery of all the available power to the cutting tools. The best and most efficient drive is the Wallace Floating Motor Drive (patent pending).

Variation in Voltage: G.E. motors may safely be used on circuits varying 10% above to 10% below their rated voltage. Take warning that if the voltage is below the standard there is a loss in the power of the motor as shown below:

- At 110 volts a motor delivers 100% of full horsepower.
- At 100 volts a motor delivers 83% of full horsepower.
- At 90 volts a motor delivers 67% of full horsepower.
- At 80 volts a motor delivers 53% of full horsepower.

Low Voltage: Whenever an electric current passes through a wire there is a loss in voltage from one end to the other, and this loss increases with the length of wire, fineness of the wire, and the amount of the current. To get all the power that is in your motor, see that the wires leading to your motor are large enough to supply the necessary current without voltage drop. This means that with a total load equal to 1/2 h.p. on a line (including lights) you must use No. 10 wire when 100 ft. from the meter box, No. 8 wire at 200 ft. and No. 6 wire at 300 ft.

To Get Full Power: Use a genuine G.E. Motor.
Use floating motor drive.
Use wire of adequate size.



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 See Note Below	Cycle or Frequency	Phase	Type	Price F. O. B. Chicago
3765	1/4	110	60	Single	Split phase	\$9.80
3778	1/4	110	50	Single	Split phase	11.30
3767	1/4	110	25	Single	Split phase	13.85
3766	1/4	220	60	Single	Split phase	14.05
3777	1/4	220	50	Single	Split phase	14.00
2988	1/4	220	60	Three	Squirrel cage	21.00
2986	1/4	220	50	Three	Squirrel cage	21.00
3769	1/4	110	DC		Compound	19.00
3776	1/4	220	DC		Compound	21.00
3899	1/2	110 & 220	60	Single	Repulsion Induction	26.00
3898	1/2	110 & 220	50	Single	Repulsion Induction	26.00
3896	1/2	110 & 220	25	Single	Repulsion Induction	37.00
3892	1/2	220	60	Three	Squirrel cage	29.00
3893	1/2	220	50	Three	Squirrel cage	29.00
3891	1/2	110	DC		Compound	30.00
3890	1/2	220	DC		Compound	31.00

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.

TO ALL DEALERS AND SALESMEN:

Aug. 24, 1933

INCREASE IN MOTOR PRICES

Motor prices shown on page 17 of catalog 409 are cancelled, effective Aug. 24th, 1933, and are replaced by the following prices:

<u>Part No.</u>	<u>Power</u>	<u>Volts</u>	<u>Cycles</u>	<u>Phase</u>	<u>Type</u>	<u>Accessories Included</u>	<u>Price FOB. Chgo.</u>
3765	1/4	110	60	Single	Split	-Cord, plug & switch	\$12.75
3778	1/4	110	50	Single	Split	" " " "	14.65
3767	1/4	110	25	Single	Split	" " " "	17.85
3766	1/4	220	60	Single	Split	" " " "	18.10
3777	1/4	220	50	Single	Split	" " " "	18.10
2988	1/4	220	60	Three	Induction	-No cord, plug or switch	25.70
2986	1/4	220	50	Three	Induction	-No cord, plug or switch	25.70
3769	1/4	110	DC		Compound	-Cord and plug only	24.80
3776	1/4	220	DC		Compound	-Cord and plug only	26.65
3899	1/2	110 & 220	60	Single	Rep-Ind.	-Cord and plug only	29.90
3898	1/2	110 & 220	50	Single	Rep-Ind.	-Cord and plug only	29.90
3896	1/2	110 & 220	25	Single	Rep-Ind.	-Cord and plug only	42.55
3892	1/2	220	60	Three	Induction	-No cord, plug or switch	32.20
3893	1/2	220	50	Three	Induction	-No cord, plug or switch	32.20
3891	1/2	110	DC		Compound	-Cord and plug only	34.50
3890	1/2	220	DC		Compound	-Cord and plug only	35.65

J. D. WALLACE & COMPANY.

WORKACE "V" PULLEYS

Part No.	Number of steps	Diameters	Hole	Held by	Price
2776	Single	2 1/4"	1/2"	Set screw	\$0.75
2959	"	1-5/8"	5/8"	" "	.75
3749	"	5-1/8"	5/8"	" "	1.00
3790	Two	3-1/8" & 1-5/8"	5/8"	" "	1.00
3791	"	4 and 1-5/8"	1/2"	" "	1.00
3799	"	3-1/8" & 1-5/8"	1/2"	" "	1.00
4510	Single	1-5/8"	1/2"	Key & Nut	.75
4511	"	2"	1/2"	" "	.75
4512	"	2 3/4"	1/2"	" "	.75
4513	"	3 1/4"	1/2"	" "	1.00
4514	"	4"	1/2"	" "	1.00

SANDPAPER AND EMERY CLOTH SLEEVES, BELTS AND DISCS

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

SANDING DISCS					
Part No.	Used on Part No.	Size	For	Grade	Price
4680	3712	8" dia.	Wood	No. 0 Fine	\$1.00 per Doz.
4681	"	"	"	No. 1 Medium	1.00 " "
4682	"	"	"	No. 2 Coarse	1.00 " "
4683	"	"	Metal	No. 60 Fine	1.50 " "
4684	"	"	"	No. 40 Coarse	1.50 " "

CEMENT		
Part No.	Description	Price
4643	For Attaching Sand Paper to Disc 3712	.25 Pint

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

SANDING BELTS						
Part No.	Used on Machine No.	Size	For	Grade	Price	
4495	34	1/2"x55"	Wood	No. 0 Fine	.90 1/2 Doz.	
4496	"	"	"	No. 1 Medium	.90 " "	
4497	"	"	"	No. 2 Coarse	.90 " "	
4498	"	1/2"x55"	Metal	No. 60 Fine	1.20 " "	
4499	"	"	"	No. 40 Coarse	1.20 " "	
4600	35	1/2"x80"	Wood	No. 0 Fine	1.20 " "	
4601	"	"	"	No. 1 Medium	1.20 " "	
4602	"	"	"	No. 2 Coarse	1.20 " "	
4603	"	"	Metal	No. 60 Fine	1.50 " "	
4604	"	"	"	No. 40 Coarse	1.50 " "	

GRINDING, WIRE AND BUFFING WHEELS

For use on Machines Nos. 19, 30, 419H, S and P, and 32 each with 5/8" hole.

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

WIRE WHEELS					
Part No.	Type	Dia.	Face	Grade	Price
4476	Straight	4"	3/8"	Fine	.75 ea.
4641	"	4"	3/8"	Coarse	.75 " "

BUFFING WHEELS				
Part No.	Type	Dia.	Face	Price
3742		6"	1/2"	.50 ea.
4642	Buffing Compound, per Stick			.50 " "

WORKACE "V" BELTS

Part No.	Length	Price Each
2939	39"	\$1.00
3741	30"	1.00
3789	28"	1.00
4562	24"	1.00

DRILLS AND HOLLOW CHISELS

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

COMBINATION COUNTERSINK			
Part No.	Description	Price	
4616	7/16" dia.	.30 ea.	

MACHINE BITS FOR WOOD			
Shanks 1/2"x2"			
Part No.	Description	Price	
4617	1/4" dia.	.70 ea.	
4618	5/16" " "	.70 " "	
4619	3/8" " "	.90 " "	
4620	7/16" " "	.90 " "	
4621	1/2" " "	1.20 " "	
4622	9/16" " "	1.20 " "	
4623	5/8" " "	1.30 " "	
4624	11/16" " "	1.30 " "	
4625	3/4" " "	1.50 " "	

HOLLOW CHISELS AND BITS			
Short Shanks			
Part No.	Description	Price	
4626	1/4" sq. x 2 3/4" long	4.75 ea.	
4627	5/16" " " " " " "	4.75 " "	
4628	3/8" " " " " " "	4.75 " "	
4629	7/16" " " " " " "	5.75 " "	
4630	1/2" " " " " " "	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 SO. CALIFORNIA AVE.
CHICAGO ILLINOIS

The Money You Invest

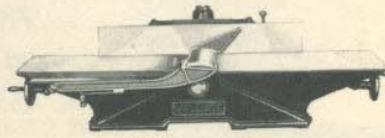
In machinery SHOULD GO into the building of that machinery and any economies effected in production or distribution should be passed on to you in the form of LOWER PRICE. . . . That is our BELIEF and our POLICY. . . . Our sales program is economical; we do not launch upon extravagant sales schemes, we do not over-advertise, circularize or attempt service that is only a biased copy of work done by magazine and book publishers, who can supply you with better information and blueprints. . . . No—we are not publishers—we are machine manufacturers—and we know that when you want machinery you will look at the machine upon its merits AS A MACHINE. . . .

The savings we have effected by our conservative policy plus the economies of vast production schedules have enabled us to offer better machines at the sharp price reductions shown in this catalog.



Wallace Machines are accepted as the standard by industry and schools. Those desiring the finest equipment available for their home shop have installed Wallace Machines. The above home workshop belongs to a resident of San Mateo, California.

More Than 60,000 Wallace Machines Used in Industry and School Shops



Wallace Jointer



Wallace Lathe

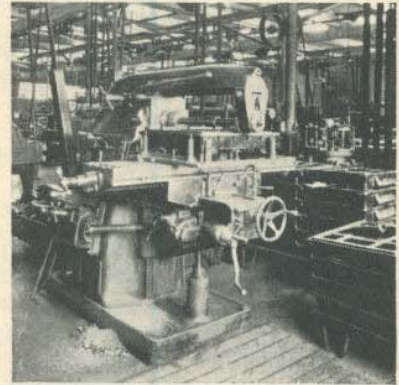
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No. 407 describing
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MACHINES



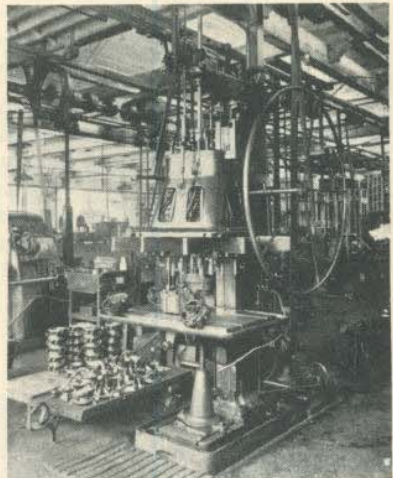
Wallace 16" Bandsaw Wallace Universal Saw

BUILDING IN DEPENDABLE SERVICE

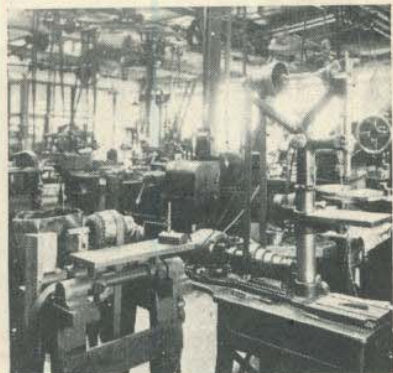
You can be certain of being able to get service, parts and supplies, years hence when you buy Wallace and Workace machines.



A view in the Wallace Shop. Milling rails for cross cut fences in Saw Frame. Operation assures each parallel.



Where a number of holes are to be drilled in a part, a multiple drill with tapping attachments is used. Note the jig; hexagon in shape; drill guide bushings located in all sides. Each hole drilled before removing from jig.



Every effort is made to prevent vibration. All revolving parts are dynamically balanced. An armature is shown being balanced on the special machine, above.

Personal Service to Our Customers: If you require any material or supplies not available in your locality, tell us your needs. Chicago is a great central market and we will be pleased to help you get what you want.

WORKACE MACHINES

for the

- HOME
- SHOP
- SCHOOL

A Real Man's Hobby

Every member of the family will get a big "kick" out of Workace. Woodworking is a constructive hobby—a hobby that pays for itself while a man enjoys it. The things he makes and the repair work he does will quickly pay for this most fascinating of all hobbies. Thousands of men have Workace Machines in their basement, or garage. It is their relaxation—a thrilling adventure that adds spice to life's routine.

Character Builder for Boys

A boy's character is moulded by his diversions. Woodworking develops the boy's imagination and skill—it provides a fine constructive outlet for his youthful energy by giving him a man's opportunity to create and build. Parents are urged by leading psychologists to find wholesome amusement and employment for growing boys. Woodworking—on Workace Machines provides the proper recreation for boys.

Build Your Own Business

Workace Machines offer a splendid opportunity to start to build an independent business. A man can spend his spare time or his full time getting started.

The field is tremendous. Workace has been the means of starting hundreds of men to success. There is a big and steady market ready to buy all he can make with Workace. Department and variety stores are always in the market for some worthwhile household article, novelty, toy or similar article to sell. The store owners in town will tell what novelties they can use.

Eliminate Waste in Pattern and Cabinet Shops

The large pattern shops as well as the small one-man shops are placing Workace Planersaws alongside the pattern makers' benches where in one step the man may be at this fast, accurate, quickly set machine; in a second he has made the desired cut at any angle or compound angle, jointed, turned, sanded—cut every one of the operations profitably—finished the job before he could have locked the stock up in a vise to plane or before he could have gotten started on a trip to a large stationary machine—done at a fraction of the cost for power, too.

Printed in U. S. A.

PAGE 20

Workace on the Farm

There's no end of uses for Workace Machines on the farm. There's a job a minute for Workace, and it will pay for itself quickly. Repairing tools and implements; making chicken coops; pig pens, incubators, sheds and cribs; doing repair work about the house and barn, making your own furniture, benches, bird houses, etc. Winter months can be spent at the profitable and interesting Workace Machines. A wonderful thing for the boys, too. When work lets down, they can spend many worth-while hours in the Workace Shop. They can start a roadside novelty shop and sell articles they make.

An Electric Tool Chest for Carpenters

The carpenter who turns in the lowest bid is not always a price cutter who is willing to work for nothing. Very often the low bidder makes more money at his figure than the high bidder. His bids are low because they are based on machine speed and economy. Carpenters who are equipped with Workace High Speed Machines have an edge when it comes to turning in estimates. They can lay out their work to conserve time. They can place the portable machines anywhere on the job. They do more work themselves with Workace Machines—instead of nailing up material someone else has cut—they cut their own stock, build cabinets, etc., and make that profit themselves.

Save Time and Material in Shipping

Install a Workace Planersaw in your Shipping Department—cut the material electrically and in a fraction of the time. Speed up shipping—cut crating, boxes, material for boxes as required and to the exact size and when required, save storage space, save material—do quicker and safer packing at much lower cost. Workace Machines are portable, operate from the electric lighting circuit, easily moved and operated where material is being assembled for packing. The same Workace Machines are available for countless other carpenter and maintenance operations in the warehouse, jobbing house, plant or outside.

Fit School Needs and Budgets

The Workace Shop Woodworker, 8 efficient, accurate, powerful machines in one, or Workace Planer Saws and individual Lathes and Band Saws selling at a remarkably low price solves the problem of reduced school budgets. Several sets of these Workace Machines can be placed in the larger schools giving the needed added facilities and spurring on the boy's interest and increasing his achievements. Smaller schools can well afford to equip to teach woodworking—to add that "thrill" of making things and in making them quicker and in larger quantities with the aid of the Workace popular priced machines. The whirl of the saw, the buzz of the planer, the zip of the lathe tool into the stock and the flying chips, the realization of making things, creating useful articles and doing it themselves keys up the boys, spurs their interests and enthusiasm and makes them anxious to get back to school, increases their attendance records and increases the percentage in graduates. Install Workace Machines—you will be well proud of your equipment and have a vast sum of money left to finance many of the other desired activities in the school.

WORKACE MACHINES ARE MADE AND GUARANTEED BY THE WORLD'S LARGEST BUILDERS OF PORTABLE WOODWORKING MACHINES

J. D. WALLACE & Co.
CHICAGO, U. S. A.

J. D. WALLACE & CO.

Main Office and Plant Located at
134-158 SOUTH CALIFORNIA AVENUE
CHICAGO, U. S. A.

All Prices Are F. O. B. Chicago, U. S. A.
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Consult Phone Book

PRICE LIST

of WORKACE MACHINES
APPLYING TO CATALOG 409
EFFECTIVE JULY 1, 1933

Terms of Payment: Open accounts are payable net in 30 days with interest charged on overdue accounts. Time payments may be extended up to 10 months by sending 25% of purchase price with order, then add 1% of remainder for each month's time and pay balance in equal installments due monthly from date of shipment.

Cat. Page	Model or Part No.	Description	Price	Cat. Page	Model or Part No.	Description	Price
3	2928	Motor Bar	\$.50	8	2045	Nut, each	\$.25
	2976	Motor Platform	2.50		4475	Steady Rest	2.00
	2929	Brackets, (2 required), each	.25		3824	24" Tool Rest	1.25
4-5	34	Workace 12" Scroll Saw { with 4712 and 4713 special guides	\$ 19.50		2990	Tool Rest Holder	1.00
	35	Workace 24" Scroll Saw { with 4712 and 4713 special guides	27.75		2947	22" Lathe Rod, each	.75
	4605	Belt Sanding Attachment for Nos. 34 and 35	.75		2915	Lathe Foot	.75
	4760	.035"x55" blades for No. 34 saw, pkg. of 4 blades	1.00	9	4	Workace 4" Planer	18.00
	4761	1/2"x55" blades for No. 34 saw, pkg. of 4 blades	1.00		31	Workace 4" Planer	12.50
	4762	3/8"x55" blades for No. 34 saw, pkg. of 4 blades	1.00		4-M	Workace 4" Planer with direct connected motor	45.00
	4763	1/4"x55" blades for No. 34 saw, pkg. of 4 blades	1.00		2980	Flap Guard for Models 4 and 4-M	2.00
	4764	Assortment 1 each above sizes, per pkg. of 4 blades	1.00		2794	Flap Guard for Model 31	1.50
	4765	.035"x80" blades for No. 35 saw, pkg. of 4 blades	1.40		2799	Knife Jointer (stone in handle)	1.00
	4766	1/2"x80" blades for No. 35 saw, pkg. of 4 blades	1.40		18	4" Steel Knives, each	1.00
	4767	3/8"x80" blades for No. 35 saw, pkg. of 4 blades	1.40	10-11	33-B	Workace Radial Drill (including chuck; no drill or motor)	21.75
	4768	1/4"x80" blades for No. 35 saw, pkg. of 4 blades	1.40		33 F	Workace Radial Drill	34.75
	4769	Assortment 1 each above sizes	1.40		33-W	Workace Radial Drill	34.75
6	19	Workace Circular Saw	22.00		4519	"V" Block	1.00
	32	Workace Circular Saw	12.50		4520	Bell Center	1.00
	4407	Sub Base for Model 32	1.50		4583	Adaptor	.75
	2962	Hood Guard and Splitter for Model 19	2.00		4561	1/2" Drill Chuck, screw type	1.75
	4446	Hood Guard and Splitter for Model 32	1.50		4580	Mortising Attachment, including fence	6.00
7	4482	Panel Cutting Fence	10.00		4581	Mortising Fence only with holddowns	3.50
	4436	5" Dado Head for No. 32	5.00		4582	Morse Taper Spindle and Drift	10.00
	4437	Outside Cutter	Ea. 1.50		4584	1/2" Precision Key Chuck	8.00
	4438	Fillers	Ea. .50		4479	Machine Vise	4.00
	4650	6" Dado Head for No. 19	6.00		3799	Motor Pulley	1.00
	4651	Outside Cutter	1.50		4562	Belt 24" long	1.00
	4652	Fillers or Inside Cutters	.60	12	419-H	Workace Home Woodworker, less motor	70.00
	4644	5" Dado Head for No. 32	4.00		419-S	Workace Shop Woodworker, less motor	97.00
	4645	Outside Cutters	Ea. 1.00		3763	Jig Saw Attachment	7.00
	4646	Fillers or Inside Cutter	Ea. .35		2970	Lathe, less headstock	7.00
	4647	6" Dado Head for No. 19	5.00		2984	Hardwood Bench	15.00
	4648	Outside Cutter	Ea. 1.00		2991	Base with Floating Drive Brackets	4.00
	4649	Fillers or Inside Cutters	Ea. .50		2997	Base, Legs and Motor Bracket	15.00
	4425	Cope Head for holding knives	1.25	13	419 F	Workace Planersaw, less motor	62.00
	4426	3/8" Inside; 1/2" Outside	Pair 1.25		2948	Stub Rods, each	.25
	4427	1/4" Inside; 3/8" Outside	Pair 1.25	14	24	Workace Jig Saw	12.50
	4428	3/8" and 1/2" Inside; 3/8" Outside	Pair 1.25		3230	.118"x.022"; 10 teeth, pin end	per doz. .50
	4451	1/2" x 1/4" Clover Leaf	Pair 1.25		3231	.118"x.022"; 15 teeth, pin end	per doz. .50
	4452	3/8" dia. Flute	Pair 1.25		3258	.035x.007; 24 teeth, pin end	per doz. .50
	4453	1/2" Groove	Pair 1.25		3259	.045"x.010"; 24 teeth, pin end	per doz. .50
	4454	1/2" Tongue	Pair 1.25		3784	1/8"x.028"; 15 teeth, saber	per doz. 1.00
	4455	3/8" dia. Flute	Pair 1.25		3785	3/8"x.028"; 9 teeth, saber	per doz. 1.00
	4456	1/2" dia. half round	Pair 1.25		3786	1/4"x.028"; 7 teeth, saber	per doz. 1.00
	4457	3/8" radius Scotia	Pair 1.25		3233	17/64" Round File	ea. .75
	4450	Blank Knives	Pair .80		3239	7/32"x9/64" Pillar File	ea. .75
	3792	8" Combination Blade, 3 1/2 pt.	Ea. 3.00		3241	7/32" Triangular File	ea. .75
	4433	6" Combination Blade, 3 1/2 pt.	Ea. 1.50	15	14	Workace Band Saw, only	55.00
	3796	8" Rip Blade, 2 1/2 pt.	Ea. 3.00		14	Workace Band Saw on stand	60.00
	4434	6" Rip Blade, 2 1/2 pt.	Ea. 1.50		3877	Stand for Workace Band Saw, ship. wt. 70 lbs.	10.00
	3797	8" Cross Cut Blade, 5 pt.	Ea. 3.00		3839	1/4" Band Saw Blade, 24 ga. 7' 7" (ea.)	1.50
	4435	6" Cross Cut Blade, 5 pt.	Ea. 1.50		3840	1/4" Band Saw Blade, 24 ga. 7' 7" (ea.)	1.50
	2094	8" Mitre Blade	Ea. 6.00		3841	3/8" Band Saw Blade, 24 ga. 7' 7" (ea.)	1.50
	4449	6" Mitre Blade	Ea. 3.50		3842	1/2" Band Saw Blade, 24 ga. 7' 7" (ea.)	1.50
	2095	8" McKam Blade	Ea. 6.00	16	B-1	Workace Spray Unit	36.50
8	30	Workace Lathe	12.50		B-2	Workace Spray Unit	27.50
	3948	Set 4 double end Workace Lathe Tools and 2 handles	6.00		X	Spray Gun	14.20
	3940	Rubber Handle for 3/4" tool	.50		22	Spray Gun	5.50
	3941	Rubber Handle for 1/2" tool	.50		B-23	Compressor and Air Chamber with V Pulley	25.00
	3942	3/4" Skew and 3/4" Round Tool	1.25		B-24	Base with Motor Bracket	2.00
	3943	3/4" Gouge-Spear Point Tool	1.75		B-25	10' Hose and Fittings	1.20
	3945	1/2" Round-Square Tool	1.00		B-26	20' Hose and Fittings	2.00
	3946	3/4" Cut-off and Round Tool	1.00		2939	"V" Belt, 39"	1.00
	3944	3/4" Turning Tool Blank Tool	.75		2989	Work Table	1.50
	3947	1/2" Turning Tool Blank Tool	.50		2948	Stub Rods, (2 required)	ea. .25
	4460	Complete Set (11) Ace Lathe Tools	9.50		2926	3/8" Drill Chuck	1.25
	4461	1/4" Skew Lathe Tool	.75		4480	Bench Vise	3.00
	4462	1/2" Skew Lathe Tool	.75		3712	Sanding Disc	2.00
	4463	3/4" Skew Lathe Tool	.95		4477	Sanding Drum, 2" dia.	1.25
	4464	1" Skew Lathe Tool	1.10		4478	Sanding Drum, 3" dia.	1.75
	4465	1/4" Spear Point Lathe Tool	.75				
	4466	1/2" Spear Point Lathe Tool	.75				
	4467	1/2" Rd. Nose Lathe Tool	.75				
	4468	1/4" Gouge Lathe Tool	.90				
	4469	1/2" Gouge Lathe Tool	.90				
	4470	3/4" Gouge Lathe Tool	1.10				
	4471	1/2" Parting Lathe Tool	.80				
	3722	Collar, each	.25				

TERMS and TIME PAYMENT PLAN

1. CASH. For orders totalling less than \$25.00 kindly send check, money order or cashier's check for full amount or approximately one-third cash. Shipment will be made C. O. D. for remainder.
2. NET CASH, 30 DAYS, is allowed on orders from rated commercial accounts.
3. TIME PAYMENT PLAN. Our monthly payment plan is simple. Total up your order. Remit 25% of the total. The remainder can be paid in any number of monthly payments up to ten months, the charge for interest and carrying charges is 1% per month.

EXAMPLE:

Suppose your order totals.....	\$160.00
25% to be sent with order.....	40.00
<hr/>	
Leaving a remaining amount to be paid monthly.....	\$120.00
If you wish to pay in ten monthly payments add 1% for each month or 10%.....	12.00
Total amount to be paid in ten monthly payments.....	132.00
<hr/>	
Amount to remit each month.....	\$ 13.20

OR ANOTHER EXAMPLE:

Suppose your order totals.....	\$48.00
25% to be sent with order.....	12.00
<hr/>	
Leaving a remaining amount to be paid monthly.....	\$36.00
If you wish to pay in 3 monthly payments add 1% for each month or 3%.....	1.08
<hr/>	
Total amount to be paid in 3 monthly payments.....	\$37.08
Amount to remit each month.....	\$12.36

In fitting up a hobby shop it is more desirable to install all the equipment so that you may enjoy the facilities of a complete shop; or if you are equipping to do business it is necessary to benefit from all the savings in manufacturing cost you would derive by handling all operations with efficient machines. To make this convenient in case you choose not to pay cash, we are glad to extend our liberal deferred Time Payment Plan to any responsible person living in the United States. We ask you to fill out the blank spaces you will find on the back of our brown order blank enclosed. If you are not in business or not going into business, change this to read "Employed at," give name of employer and advise how long in that employment. Advise if married. If not of age have parents order for you.

MAKING UP ORDER—Please use the brown order blank (form S-2) enclosed. Give your mail address in "Sold To" space and "Ship To" address. State how you wish shipped, "Via" express, freight, truck or parcel post.

State quantity of each item wanted under "Quantity." Quote the catalog number of items wanted under "No." and give description quoted in catalog. Under H. P. mention horse power of motor if ordered; voltage and A.C. or D.C. under current, cycle and phase.

PLAN OF PAYMENT—If cash in full, fill in as follows:

For the property specified we promise to pay Cash in full \$..... herewith \$.....
cash and the balance of \$..... in..... payments of \$..... monthly from date of shipment until paid.

If part cash, balance C. O. D.:

For the property specified we promise to pay Cash \$.....
herewith, balance C.O.D. \$..... cash and the balance of \$..... in..... payments of \$..... monthly from date of shipment until paid.

Or if Time Payment, for instance, take first example above:

For the property specified we promise to pay One Hundred Seventy-two Dollars \$..... \$40.00 cash and the balance of \$..... 132.00 in 10 payments of \$..... 13.20 monthly from date of shipment until paid.

Please sign order in ink—thank you.

Personal Service To Our Customers

If you require any equipment, material or supplies not available in your locality, tell us your needs. Chicago is a great central market and we will be pleased to help you get what you want.

J. D. WALLACE & CO., Chicago, Ill.