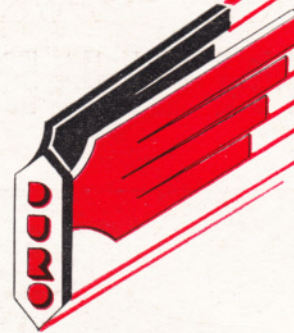
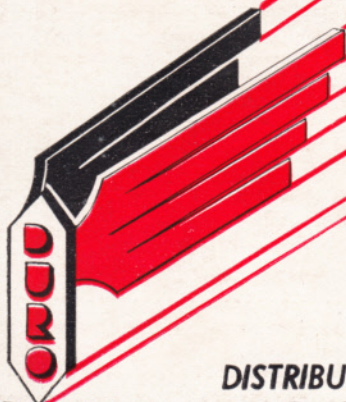


DURO

POWER DRIVEN
MACHINERY

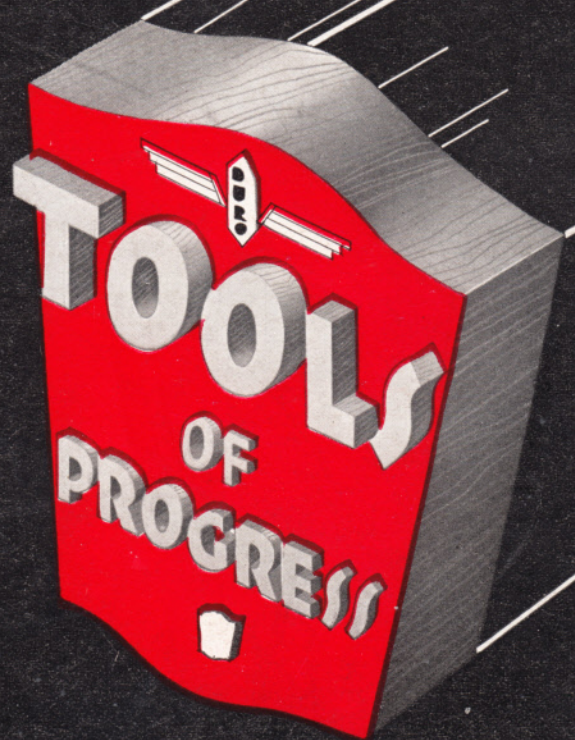


CATALOG E-37B



DISTRIBUTED BY
JOSEPH WOODWELL CO.

Wood St. & Blvd. of Allies Co. 1060 Pittsburgh, Pa.



DURO - PRODUCTION 16 - INCH BAND SAW

No. 3023

\$110⁰⁰

BAND SAW ONLY

- **CAPACITY, 16³/₈ x 10³/₈ depth.**
- **Actual Table Size 24" x 16".**
- **Improved guides with independent micrometer adjustments.**
- **All blade and table adjustments are made from front of saw.**
- **Two New Departure Sealed Ball Bearings on both upper and lower wheels.**

A Band Saw big enough for the production floor and capable of doing factory work, yet built and priced for the Homecrafters' work shop. This husky Saw stands about 6 feet high. Its weight of approximately 400 lbs. guarantees a minimum of vibration.

The entire frame, the wheel guards, the table and motor base are made from selected, seasoned gray iron. All parts are carefully machined to precision accuracy. There is more actual strength built into this machine than is necessary for even heavy production work, but it is this extra strength that gives the saw rigidity, precision and an unusually long life. Its performance meets the demands of the most skilled cabinet and pattern makers. Its safety features pass all State and school requirements.

The box type and channel construction frame is cast in one piece of gray iron. Note that the extra heavy one-piece gray-iron guard fully covers the Saw Blade, except at the cutting point, to guarantee maximum safety. The guard possesses a built-in electric light, providing the greatest visibility and consequent precision work. The gray iron table is milled and ground to precision and fitted with an auxiliary work table which gives it an overall dimension of 24" x 16". Ball crank and screw operates the table tilting mechanism. The mechanism to record degree of tilt is on the frame arm above the table in plain view. A steel rip fence operated by friction drive on graduated bar is standard equipment.

Solid disc steel wheels, first rubber tired are then dynamically balanced and checked for proper alignment. Both the upper and lower wheel spindles operate on two New Departure Ball Bearings. The upper wheel mechanism operates in cast box frame having 60° dove-tailed machined ways with gib adjustments. These features are usually found only in high priced production machinery.

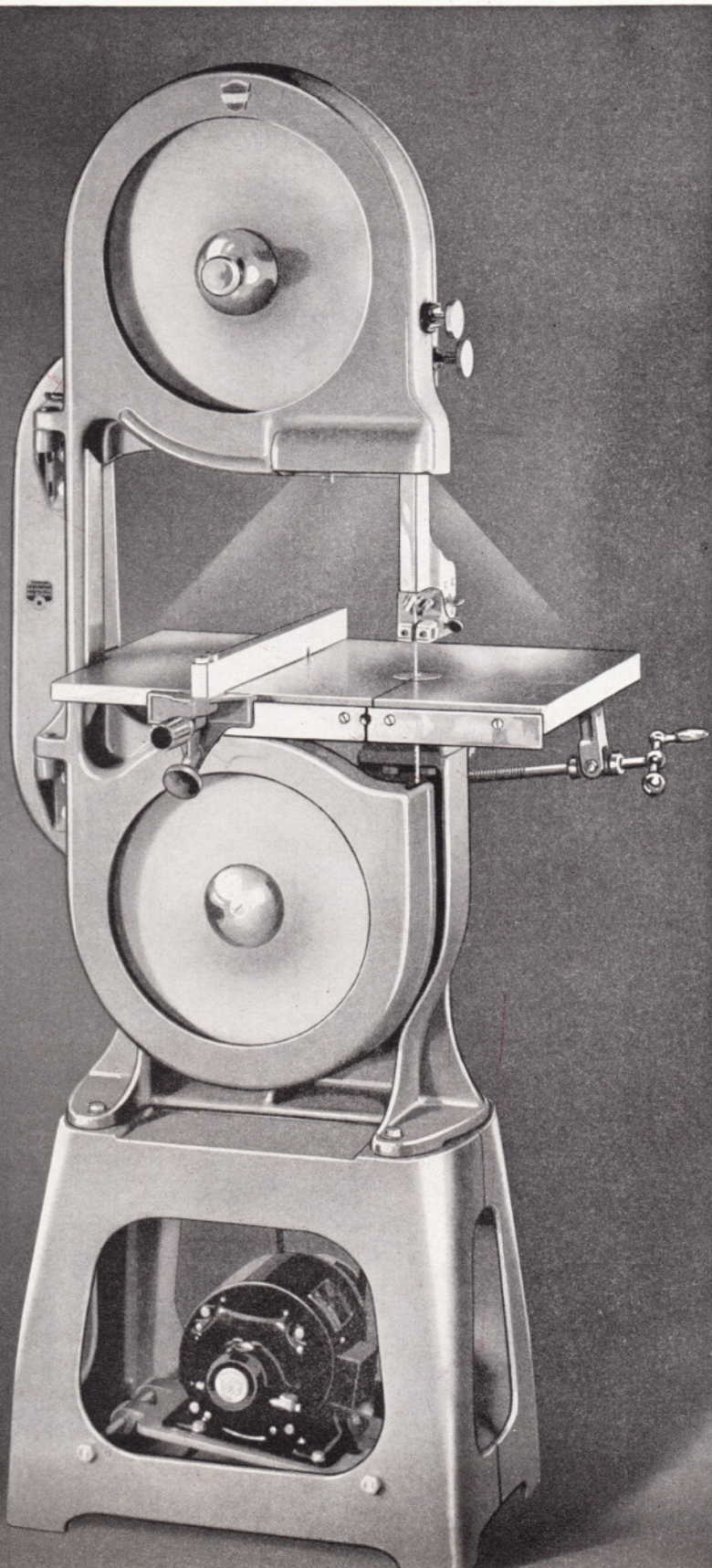
Adjustable saw guides. Here our engineers have developed what we believe to be the most scientifically practical saw guides ever produced. Both the upper and lower guides are hardened steel rollers with individual hexagon keyed adjustments. These guides permit very fine adjustments, and keep the blades true and accurate. They also fit and guide properly blades from 1/8" to 1" in width.

Length of Blade, 111". Blades up to 1" may be used. Capacity with guard closed 15 3/4" x 9 3/8". The entire Band Saw and base are finished in new corduroy baked enamel with chromium plated fittings.

3023 Band Saw only—less motor base, motor belt and pulley \$110.00

3024 Band Saw complete as pictured with heavy gray iron base and motor mounting; 1/2 H.P. motor, pulley and belt. Shipping weight 450 lbs. \$155.00

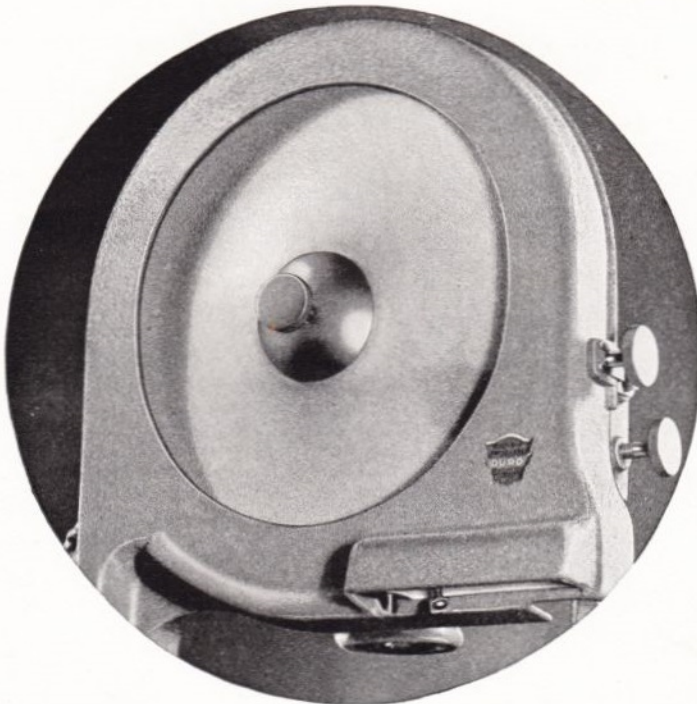
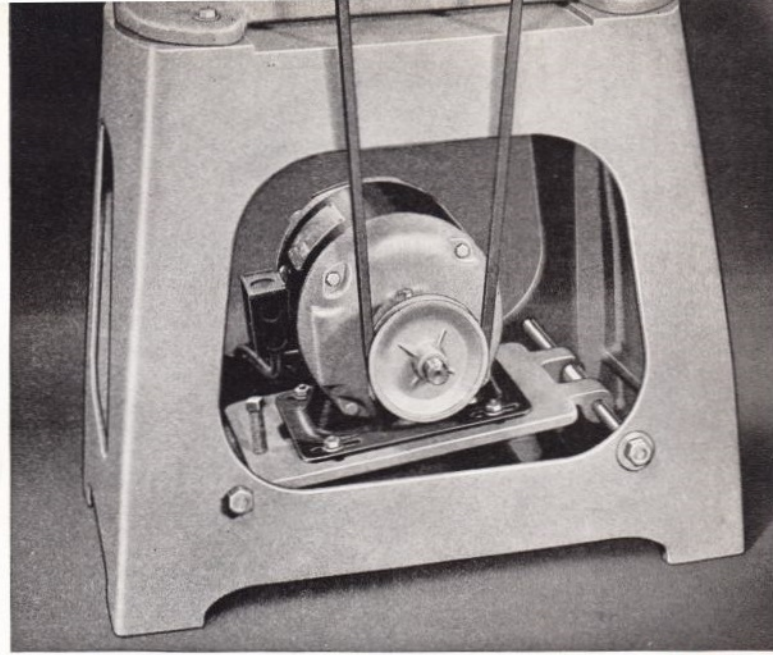
3766 Electric Bulb to fit in above guard, extra . . . \$0.35



Floating Motor Gives Proper Belt Tension

Our Engineers have developed an unusually practical and safe motor base and motor mounting. The motor is mounted on a hinged base providing a floating action that maintains the proper belt tension at all times. The hinged motor mounting with its adjusting screw provides a quick and accessible method of changing belts and pulleys when slower speed is required for metal cutting. The motor base is provided with properly designed slots to accommodate all standard makes of motors. The base is made of high quality cast iron, finished to match the saw, and is so designed that the unit is the right height for the average user. Bolt holes, conveniently located, are provided on the inside of the frame for mounting to the floor but this will be unnecessary in most instances as the entire unit is unusually well balanced and rigid. Mounted on this base, with its own motor and electric light this unit is entirely independent and may be used anywhere in the shop or outside where electric current is available.

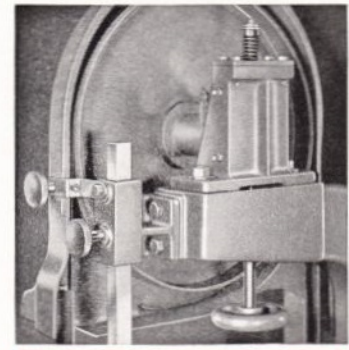
302349 Base & Motor Mounting \$18.50



Easy To Align Blades From Front

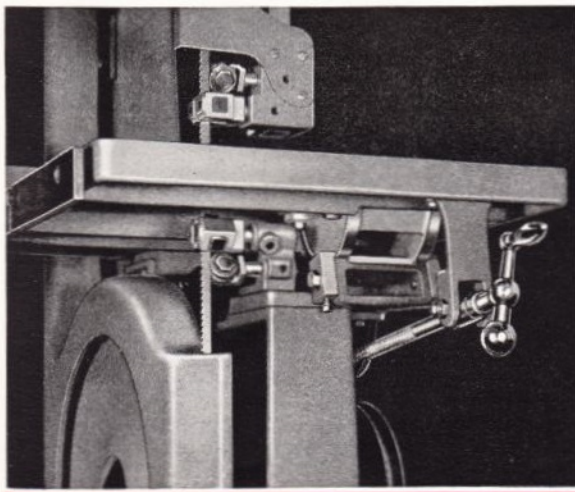
A particularly noteworthy feature of this Band Saw is that all adjustments can be made from the front. The upper wheel has a large knurled hand wheel in the center for adjusting the tilt. And accessible just below the wheel is the large hand wheel which adjusts the blade tension. Even the tilt of the table is made from the front of the saw.

This unusual simplicity of adjustment and smoothness and convenience of operation accounts for the preference shown this machine. A built-in electric light guarantees perfect visibility of work.



Upper Wheel Assembly

Here you will note the heavy cast iron upper wheel assembly. The cast box frame has 60° dove-tailed machined ways with gib adjustments. You will also note the large hand wheel that gives proper tension to your saw blades. This hand wheel is operated from the front of the saw just as easily as it is from the back. Both the upper and lower wheels are mounted on New Departure Sealed Ball Bearings.



Trunnion and Tilting Device

Note the position of the lower guide—how close it is to the under side of the table. This makes straight and accurate work much easier to accomplish. As illustrated, the hardened and ground rollers are concaved and set at the proper angle to insure the blade polishing the surface of the roller and making it impossible to groove, which greatly increases the blade life.

The guide and rollers are made of tempered steel and properly hold in line all blades from 1/8" to 1" in width.

The heavy cast iron trunnion is machined and so located to properly support the table yet allows free access to the lower guides. Turn the ball crank handle and the table tilts to any desired angle and is held rigidly in position without locking.

DURO - PRODUCTION

BENCH MODEL DRILL PRESS

No. 3080

\$34⁸⁵

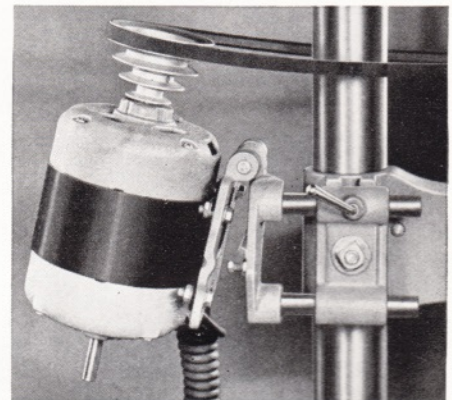
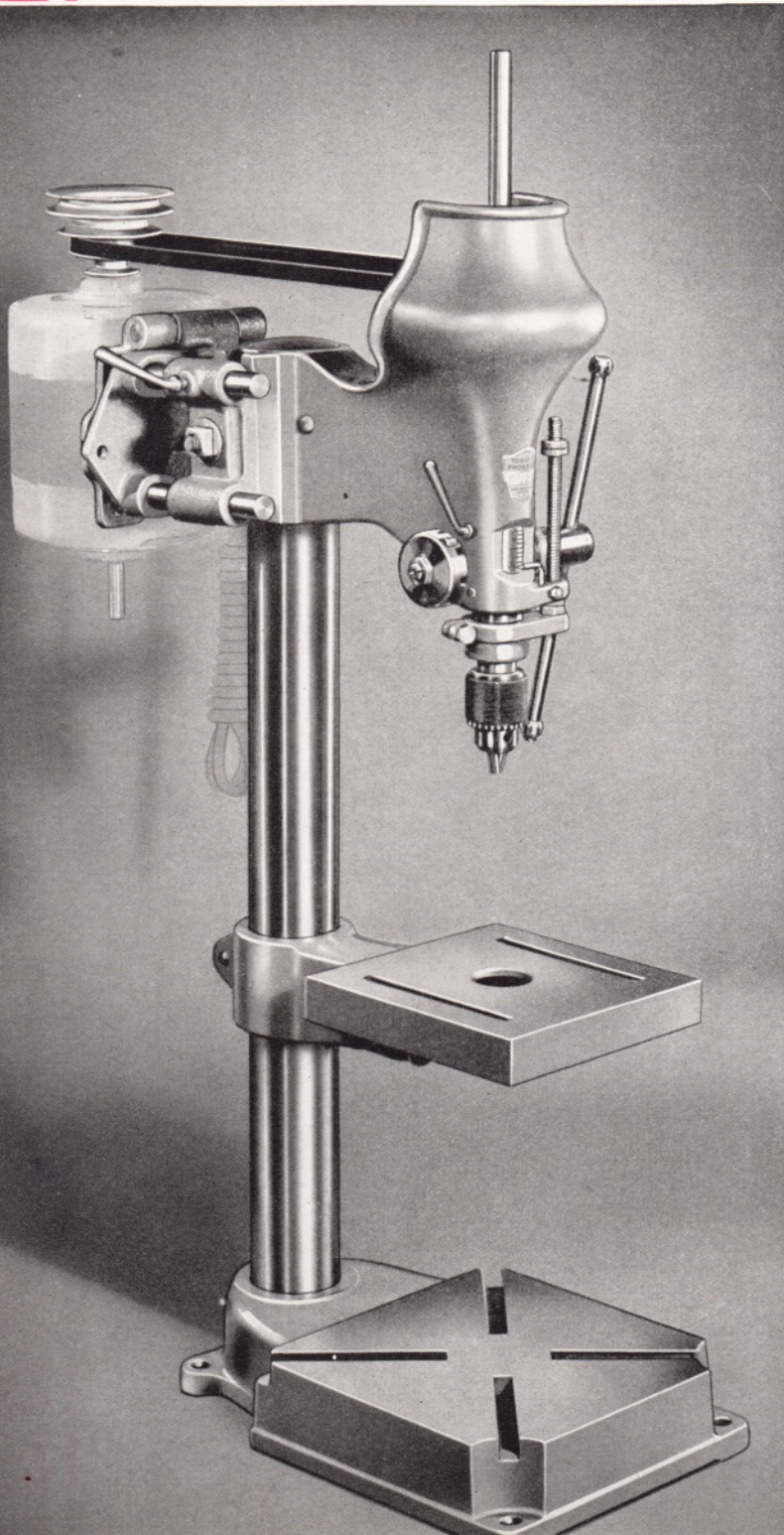
AS PICTURED — LESS MOTOR

- **1/2-Inch Capacity in Steel**
- **Jacobs Keyed Chuck**
- **1/2-Inch "T" Slot Base**

The outstanding quality of this Drill Press, its many developments and exclusive mechanical features testify to the ability and foresight of our engineers.

There are both Bench and Floor Models. Complete details of both models are given on this and the following page. Check these carefully. There is no difference in the size or the style of the head on Bench and Floor Model Drill Presses. Nor is there any difference in the smooth, vibrationless operation and the precision of working parts. The same quality marks the two models. The difference is in type alone, to meet personal preferences of craftsmen and various tool capacity requirements.

Note the massive gray iron heads of these new 1937 Drill Presses and the perfect bearing support of the spindles . . . the massive columns and the heavy, carefully machined bases and tables . . . everything denotes quality. The Bench model has the same stability and accuracy as the Floor model. When mounted flush with the end of the bench the head may be swung at right angles to the bench. Heavy pieces may in this way be drilled from the floor. All castings are properly seasoned. Bases and tables are milled and machine ground to exacting limits to enable the user to do the finest types of work with the greatest degree of accuracy and precision. For holding fixtures or work to the table, the extra large base is equipped with "T" slots which engage 1/2" square head bolts. The adjustable upper table is 8 x 8" and tilts to 45° in either direction. This table is slotted to take 3/8" bolts or to accommodate fixtures. Slots are spaced to accommodate shaper guard or mortising hold-down. Note center hole—used, when head is inverted, for shaping or when boring through materials. Bench Model Drill Press drills to the center of a 14" circle, and has a maximum distance from the chuck to the table of 18".



Hinged Motor Mounting

With this mounting, motor is bolted to the bracket which operates on a hinge. Changes from one speed to another are made by simply lifting motor by hand and lowering belt to desired speed. This procedure obviates the necessity of using wrenches to make adjustments and sidesteps the difficult task of prying a belt down from one step to another. This type of motor mounting also assures proper belt tension at all times, and longer belt life, as the weight of the motor rides on the hinge, giving the exact tension needed. The sliding bars, held by the hand locking lever, provide a wide variation of adjustments.

FLOOR MODEL DRILL PRESS

No. 3081

\$39⁹⁵

AS PICTURED LESS MOTOR

Our Floor Model production Drill Press is designed for those who prefer the larger machine because of its greater capacity. This model drills to the center of a 14" circle and has a maximum distance from the chuck to the floor base of 46½". The Drill stands over 6 feet in height and has a heavy 2¾" polished steel column.

Comes equipped with large size production table with oil groove, removable disc for routing and shaping and "T" slots, the latter for bolting down jigs, etc. Table can be tilted in either direction to 45° or swung out of the way. The extra large base is likewise provided with "T" slots for bolting down jigs, etc. Both table and base are milled and machine ground to precision accuracy.

DOUBLE DEPTH ADJUSTMENT. The oversize quill is graduated in 1/8" from 0" to 4½". Positive micrometer adjustment provides a method to lock the spindle in position when shaping and routing, or determines the length of stroke when mortising or drilling. Knurled lock nuts hold it in position. In addition to this, an adjustable scale is provided on operating lever shaft. Pointer is provided and the adjustable scale may be set at 0" regardless of position of the quill. You may then drill to any required depth as the pointer will indicate depth of drilling operation in 1/8 inches. Note that headstock is fitted with lever lock on left side for locking quill when routing.

Both Drill Presses are adaptable to many operations and the fact that only one spindle is required with drilling, boring, routing, shaping, sanding, carving, mortising or grinding operations makes either model economical to purchase. Various operations are done in the Jacobs chuck or by screwing adaptors on the original spindle.

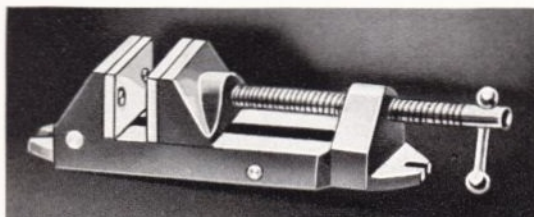
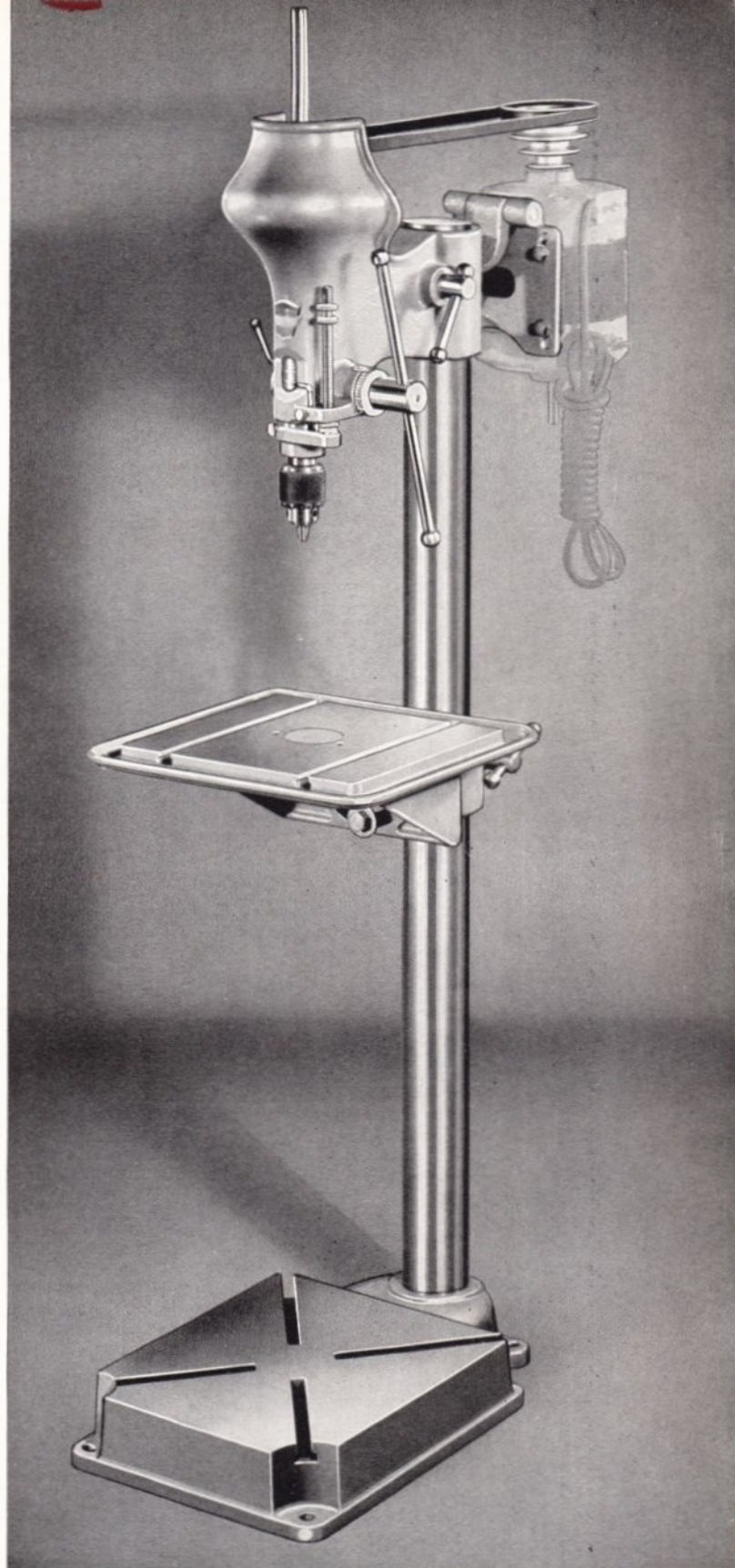
SHAPING is done by reversing head and having spindle come up through table. Adaptors, shaper cutters and other accessories are found on pages 28 and 29.

MORTISING is easily done on both Bench and Floor Models due to the great strength and rigidity of the machines. The sturdy head, massive column and rigidly braced table provide ample strength up to and including 1/2". Speed and precision characterize the mechanical performance. Accessories are shown on Page 29.

ROUTING is also possible due to the unusual strength and smooth, even flow of power. Other uses to which the Drill Presses may be adapted for occasional jobs and within certain limits are carving, inlaying, etc.

Both Drill Presses are finished in corduroy baked gray enamel . . . have polished tables and polished steel column with chromium plated trimmings. Motor pulley, belt and Jacobs chuck, are standard equipment.

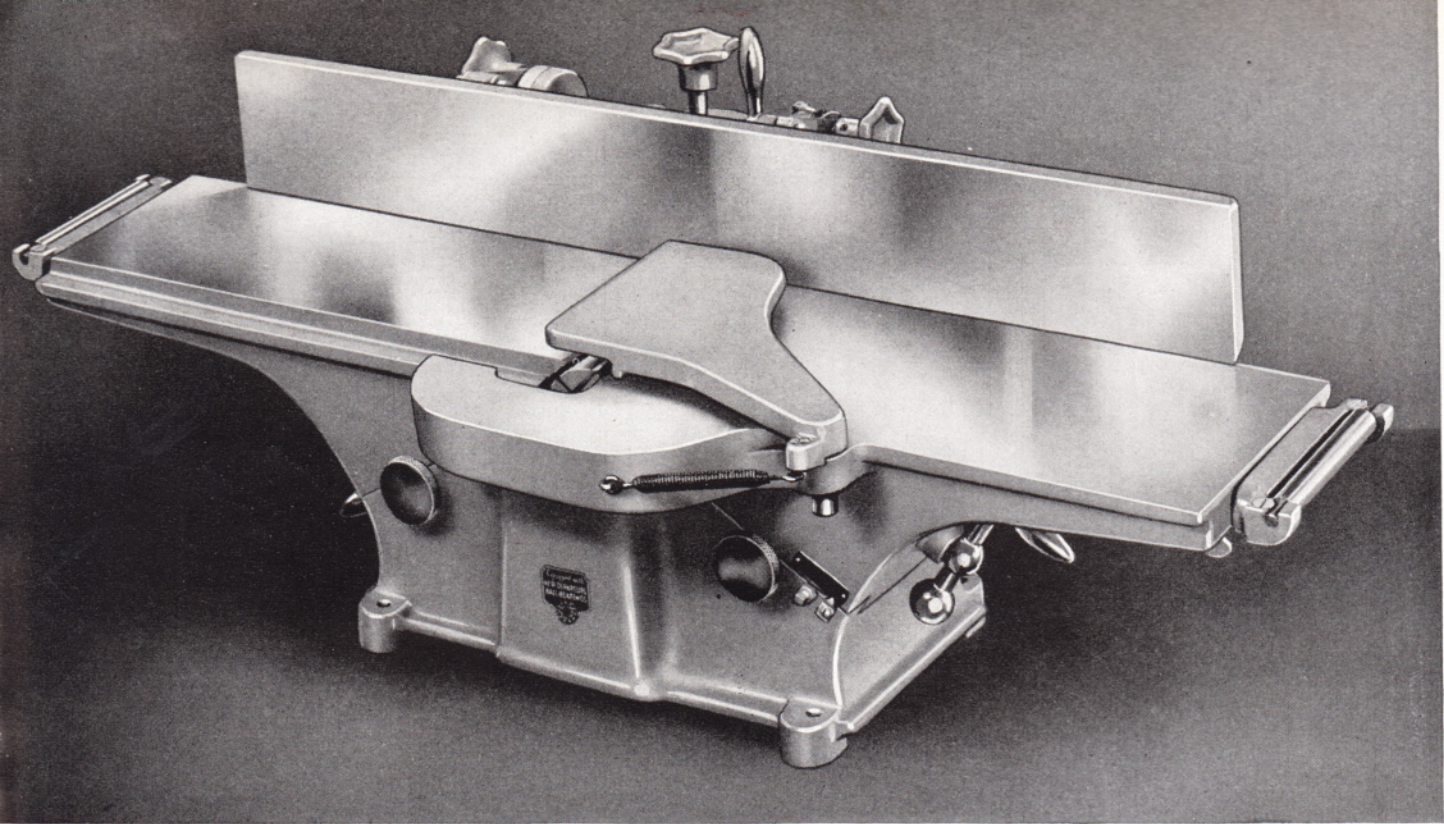
3080—Bench Model. Shipping Weight 105 lbs. \$34.85
3081—Floor Model. Shipping Weight 175 lbs. \$39.95



Adjustable Drill Press Vise

An invaluable accessory to the Drill Press particularly where it is necessary to drill irregular or tapered pieces or other shapes that are hard to hold. Made of a heavy casting that is well ribbed to provide the necessary strength. A heavy screw with sliding bar is provided for tightening. Two extra jaws for holding irregular or tapered pieces are standard equipment. The vise is so designed that it can be bolted to the slotted grooves on Drill Presses.

3190—Drill Press Vise. Shipping weight 5 lbs. Each \$2.25



DURO - PRODUCTION JOINTER

No. 3035

\$53⁵⁰

AS ILLUSTRATED

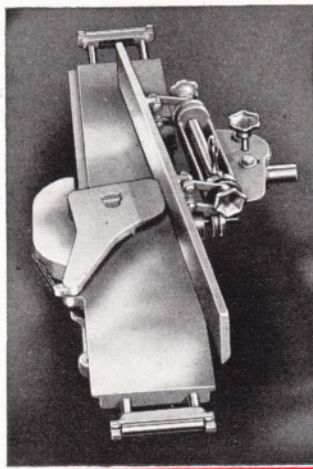
Capacity
6" Wide
1/2" Depth

- **Extensions** increase capacity of tables to 60" overall. Exclusive with us.
- **Cutterhead.** Three blade ground and balanced running on New Departure Ball Bearings.
- **Tables** surface ground after assembly to assure perfect alignment.

- **Production Fence** attached to rear table, eliminating gap between fence and rear table.
- **Dovetailed Ways.** Tables slide on dovetailed ways with gib take-up assuring alignment.
- **Guards.** Cutterhead guarded on both sides of fence, an added safety feature.

A Quality Built Jointer that has capacity, heavy construction, fine engineering and many outstanding features. Irrespective of other superiorities, the patented extension tables alone, increasing the overall length of the tables to 60 inches as they do, place this unit in a class by itself. Hundreds in use in large production shops are constant proof of its fine performance.

The Castings Are High Quality Gray Iron, properly seasoned, then machined to precision limits. The massive base insures the solidity required to support heavy work. It also provides steady substantial mountings for the shaft which runs at 4500 R. P. M. Shaft runs smoothly in New Departure sealed ball bearings. Cutting head and shaft is one solid piece of steel, accurately machined and dynamically and statically balanced. After assembly the table tops are ground to a glass-like finish to guarantee their being absolutely parallel. Raising or lowering operations are accomplished by turning ball crank handles. The tables sliding smoothly on machined dovetailed ways, are locked in position by knurled knobs located on side of base. A graduated depth gauge indicates the depth of cut. Front table is 16 inches long and 7½ inches wide with a 3-inch rabbeting arm. Rear table is 17 inches long and 7½ inches wide with a 1 inch rabbeting edge. Equipped with three 6-inch high speed steel blades. Fitted with 2-inch pulley, use 5-inch pulley on 1750 R.P.M. ½-H.P. Motor; 50 in. belt and No. 3677 steel stand. Ship. wt., 150 lbs.



Extension Rods

An exclusive feature that increases the table length to 60 inches overall. Proper support is thus given to long pieces being planed. A production size unit, yet compact and conserving in space. Extension rods may be closed by loosening thumb screws.

The rollers are adjustable and are perfectly aligned with the table. They have the added advantage of making it easier to pass the wood over the jointer.

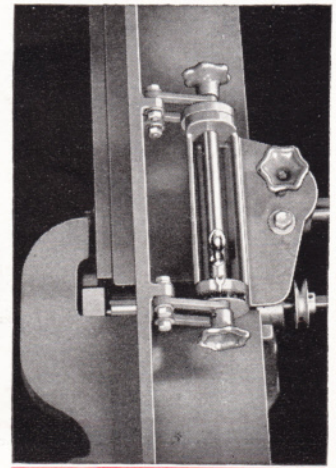
Note the rip fence swivelled to angle, accomplished by loosening two bolts with wrench provided. Costly construction and previously found only in large mill jointers priced many times higher than this unit. A very useful feature allowing operator to make a shearing cut on wood where the grain has a tendency to lift. Produces a smoother finish and lengthens the life of the blades.

Guarded Blades

The front guard of cast gray iron is actuated by a spring that returns guard to place as work passes through. Rear guard on right of fence is an integral part of the fence base casting and automatically protects blades as fence is moved to left. Front guard may be swung out of the way when rabbeting.

The fence is operated on an arm fastened to the back table **not the front**. The only proper method of suspension, as there is then no gap between fence and rear table, the point where lumber would catch. Clearance under front fence is equal to the depth of cut.

Fence may be tilted to 45° in either direction and locked in position by hand wheels. The graduations and pointer record the degree of tilt. Up-right hand wheel loosens the fence base casting for moving it across the table.

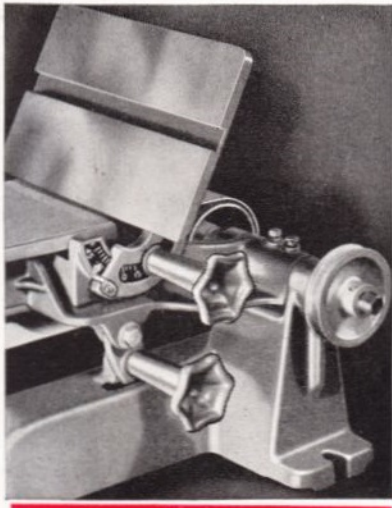
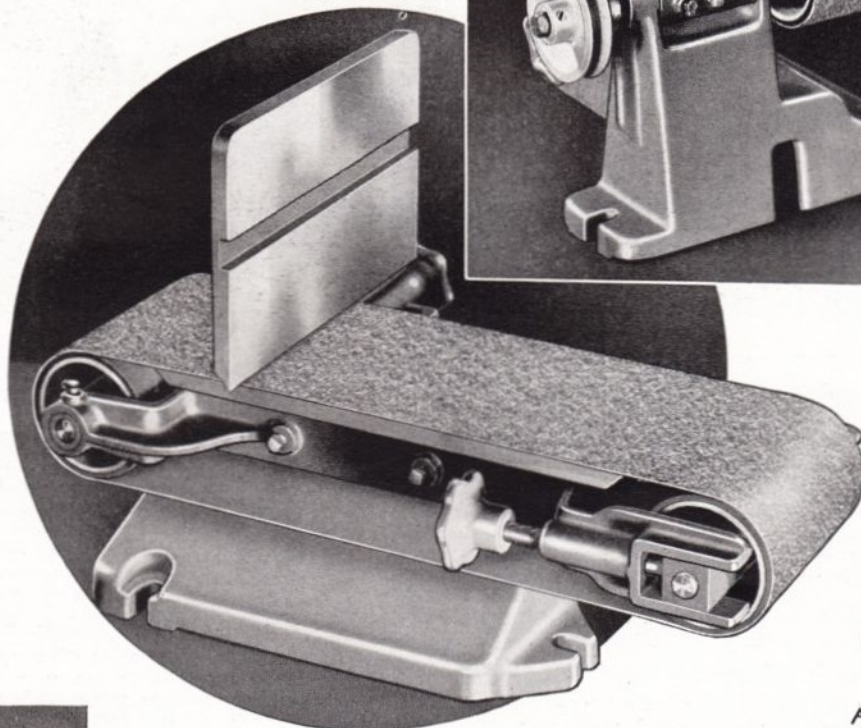


DURO - PRODUCTION

Belt Sander FOR VERTICAL OR HORIZONTAL SANDING

Again we lead the field in placing one of the most useful woodworking tools within the reach of every woodworker. This production Sander ideally meets any sanding requirements of the most exacting artisan. Its ease of operation and versatility in handling all types and descriptions of work make it a valuable asset to either the home workshop or the production shop. The features and specifications listed below will prove its amazing value and usefulness.

- **6 x 44- $\frac{1}{2}$ inch** cloth back sanding belts.
- **Table tilts** to 45° in one direction and 15° in other direction for angle sanding.
- **Mitre Gauge** graduated to 60° in both directions provided for sanding duplicate angles.
- **Hand Knobs** lock sander for horizontal or vertical sanding.
- **Belt Tension** controlled by hand wheels.



No. 3065
\$21⁴⁵

AS ILLUSTRATED

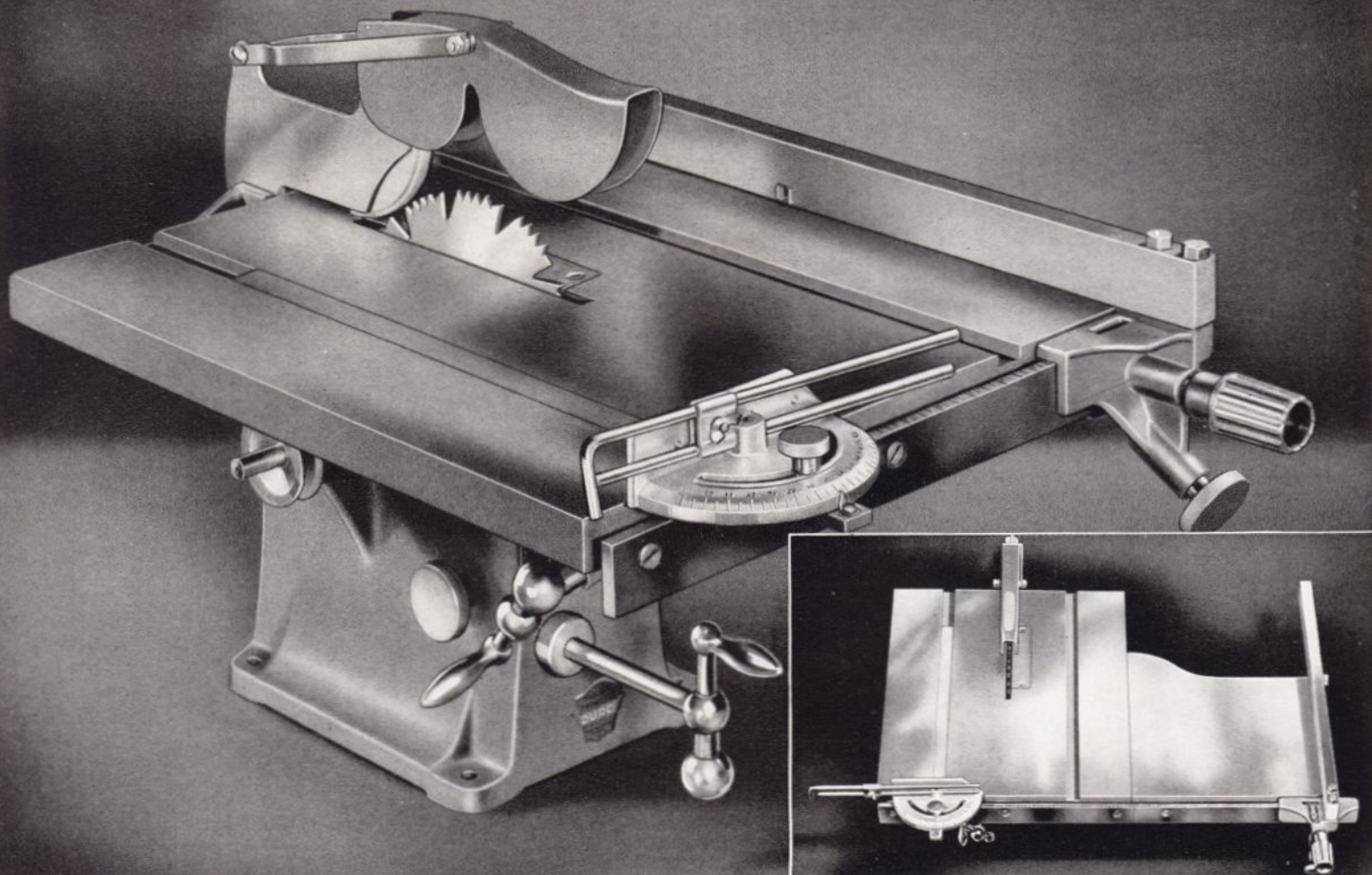
Perfect Work from A Practical Machine

Belt Sanders are strongly recommended by authorities on woodworking as the only practical and proper method of sanding. The Belt Sander, with its cutting speed uniform across the entire cutting face of the belt, gives a smooth finished surface—whereas in disc sanding, with the peripheral speed varying across the entire width of the disc, a series of circles or grooves are visible on the finished work.

Adaptable To Many Types Of Work

The table is removed and the machine used horizontally for sanding extra long pieces with the grain. Used vertically, with the table and mitre gauge, for butt sanding and straight and compound angles. With table tilted and mitre gauge set to required angle, any compound angle may be sanded. Ideal for the pattern maker or cabinet shop.

The base and arm are made of the highest quality gray iron. The drums are rubber covered and balanced to reduce vibration to a minimum. Self-lubricating bronze bearings with oil reservoirs to renew lubrication. The main table is 6 inches wide by 12 $\frac{1}{2}$ inches long, rigidly supported on two steel uprights; the tilting table is 6 $\frac{1}{2}$ inches by 10 inches and both are surface ground. Note the view at left showing the tilting arrangement of table with pointer to give the degree of tilt. One hand knob locks table and the other locks machine in horizontal or vertical position. Also fitted with conveniently located hand knobs on each side of machine to quickly adjust the belt to proper tension and alignment. Use 2 $\frac{1}{4}$ -inch pulley on 1750 R.P.M. $\frac{1}{2}$ -H.P. Motor; 48-inch belt and No. 3677 Steel stand. Length overall, 22"; Width 15 $\frac{1}{2}$ "; Height overall, 9".



A Great Saw Value

Built to give you more value from the standpoints of appearance, capacity, performance and ease of operation than any other production saw selling within this price range.

To our highly specialized engineers and craftsmen was assigned the task of improving upon even so tremendously popular a saw as our last year's model.

The degree to which they have succeeded is evidenced here in the absolute precision and trouble-free performance built into this new model. New features have been added which include: Improved guard with steel splitter and anti-kick-back . . . Improved Friction rip fence adjustment . . . Improved table extension and refinement of many mechanical details.

Elimination of Vibration

This bench saw has been built with a heavy, well balanced frame, fully enclosed, with substantial reinforcing cross ribs. The housing in which the spindle bearings are mounted is an integral part of the frame casting. Bearing housings are set exceptionally far apart to provide maximum support to the spindle. The spindle runs on New Departure permanently sealed ball bearings. All moving parts are held to close tolerances.

Tilting and Raising Handles

A close-up view of the tilting and raising mechanism. Large ball crank permits micrometer adjustment to any angle up to 45 degrees. Pointer indicates degree of tilt on graduated trunion. Table is rigid at any angle without locking.

Table raises and lowers by large ball crank which operates cut gear rack on both front and rear table posts. Large hand wheel locks table securely in desired position.

Extension Table and Slide Bar

Provides full 20 inches between saw blade and rip fence and allows ripping to center of 40-inch panel. Properly supports work while cutting. Eliminates binding of the saw.

Ground and finished to match table and machined to fit perfectly. Fitted with graduated slide bar that matches table bar by tongue and groove. Attached by two machine bolts.

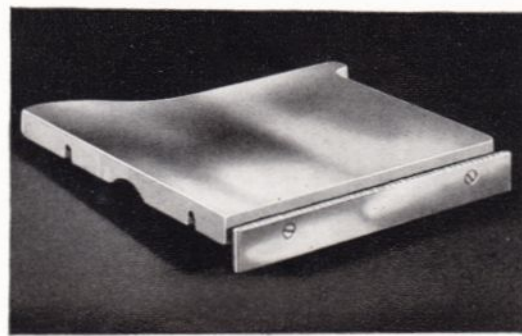
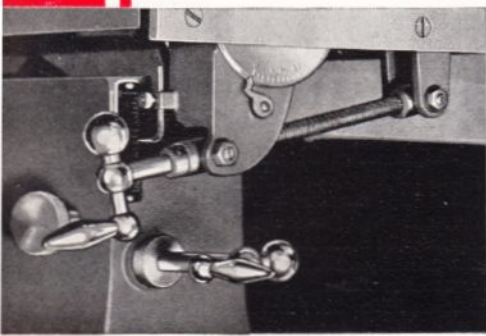
Table is 13 x 13 1/2 in. Ship. wt. 12 lbs.
301553 \$3.50

Extra Large Table Surface

We have placed much emphasis upon the size and finish of the production saw table surface. Especially the distance in front of the saw blade. Greater freedom of manipulation and greater accuracy of guidance on either fine or heavy work are possible only when adequate table surface is provided. Consequently our production saws come with a surface 16" x 20" overall. This gives 9 1/2" of table surface ahead of a blade set at 2" depth, and 11" ahead of a blade set at 1" depth. This generous table space permits easy cutting of all boards up to 12" or wider and eliminates the necessity of purchasing an extra front table to cross cut boards from 6 to 12 inches, the average size used.

New Extension Gives Still More Table Space

The above illustration shows our special extension table which is easily attached to the main table to increase the distance between saw blade and rip fence to a full 20", permitting ripping to the center of a 40-inch panel. This extension will properly support large pieces being passed through the saw blade. There can be no sagging or binding. Extension table measures 13 x 13 1/2" overall. The top is machined and surface ground to the same fine finish as the standard table top. Ends are machined to fit perfectly. Comes fitted with rip fence slide bar, graduated in 1/8", "tongued" to match groove on table slide bar.

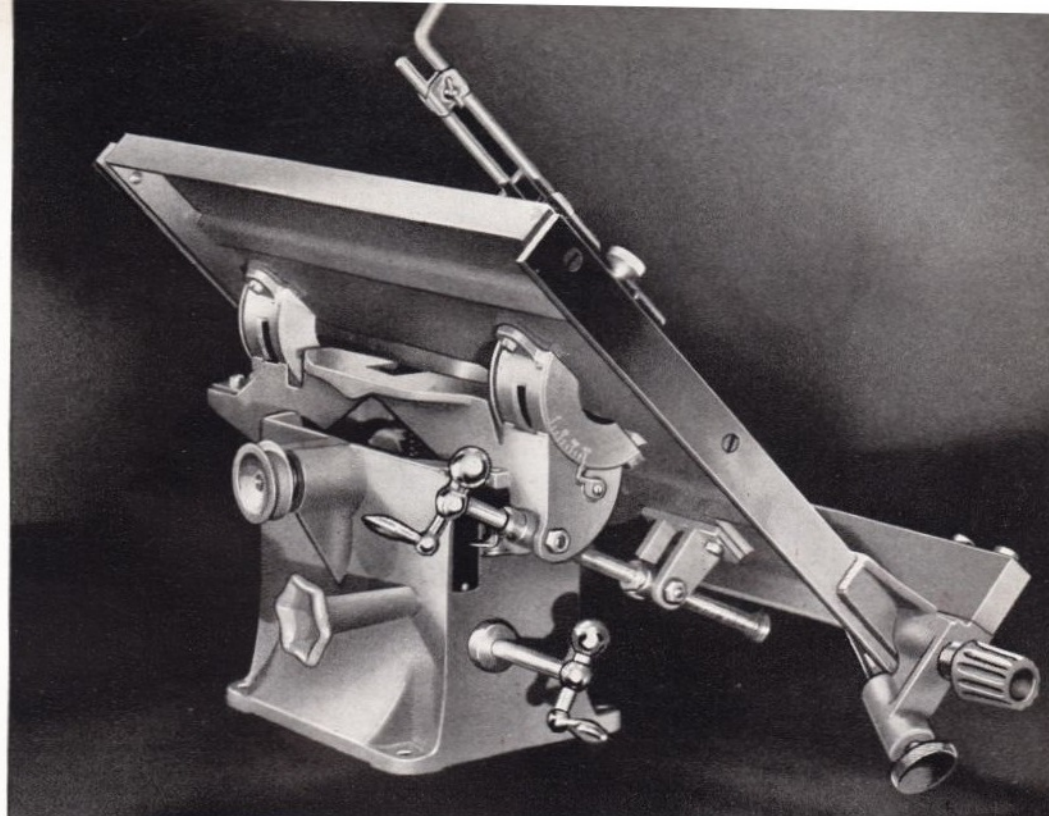


DURO PRODUCTION BENCH SAW

No. 3015

\$34⁵⁰

LESS EXTENSION TABLE

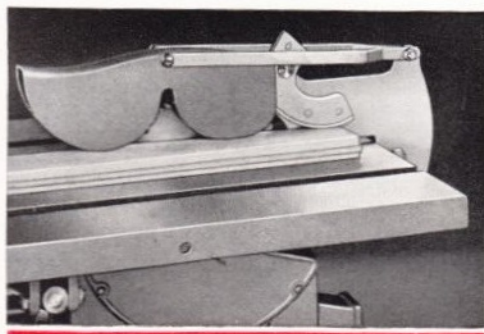


Workmanship—Material

In our factory, every mechanic realizes that the importance of absolute accuracy in a tool of this type cannot be over-emphasized. All parts coming from all departments are rigidly inspected before final assembly. The materials are all of excellent quality. All castings are made of fine quality gray iron, specially designed and reinforced with ribs to give the proper amount of strength and durability. Where steel is used, that analysis most suitable to the particular application goes into the machine. Table surfaces are ground to a mirror-like finish. All exposed steel parts are cadmium or chromium plated to prevent rust and to enhance their appearance.

Practical Mechanical Adjustments

Photograph in the upper right hand corner illustrates the simplicity of the various adjustments. We believe you, like thousands of others, will agree that these adjustments are by far the most efficient on any table saw built, regardless of price. When it becomes necessary to tighten a lot of hand screws and clamps to obtain an adjustment, such adjustments become impractical "gadgets." Our adjustments are practical. Rip fence is made of solid steel with all parts machined to fit and hold it rigid. Quarter turn of locking handle releases it. Friction drive knob turns and it moves across the table—always parallel to saw blade. Ball crank handle turns to tilt table to required position without the necessity of adjusting and clamping it into position. Table raises and lowers quickly and accurately. Two turns of the ball crank raise it and $\frac{1}{4}$ turn of hand wheel locks it in position. Mitre gauge graduated to 60° in either direction, with extension stop bars for duplicate cutting, is supplied as standard equipment.



Guard Splitter and Kick-Back

Illustration at the left shows the guard and steel splitter with anti kick-back device which is provided as standard equipment. The splitter is designed to back up the saw blade thus preventing binding. The anti kick-back is of the friction type and is designed to grip instantaneously on all material that might kick back, from the finest to the limit of the saw's capacity. These units meet all safety requirements.

Table Bracket—Table Mounting

A strong table bracket carries the table. Ways are milled in the front and rear bracket to support the table trunnions. The bracket is equipped with large $1\frac{1}{8}$ inch steel posts—a fine tooth rack cut in each post. The posts operate in 3-inch long bearing supports which are an integral part of the frame. A double pinion turned by the ball crank handle operates the gear rack, lowering or raising the table, as required, with ease. With a double pinion and gear rack on both front and rear posts and the weight of the table thus evenly distributed there is absolutely smooth action and no possibility of cramping.

The Table is rigidly mounted, front and rear, on two sets of wide trunnions with double ways. This ingenious design permits the table to swing on its own axis. Consequently, only a very narrow slot for the blade is required—a great asset when there is fine work to be done. A removable throat provides ready access to the blade or additional space for dado saws.

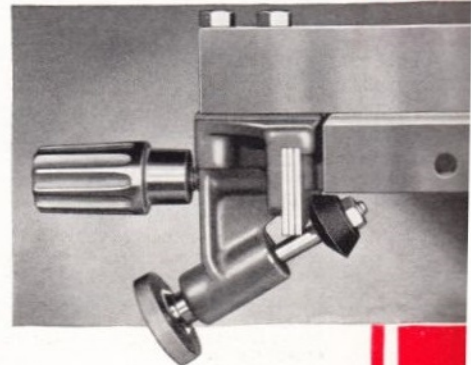
Capacity—Saw Blades

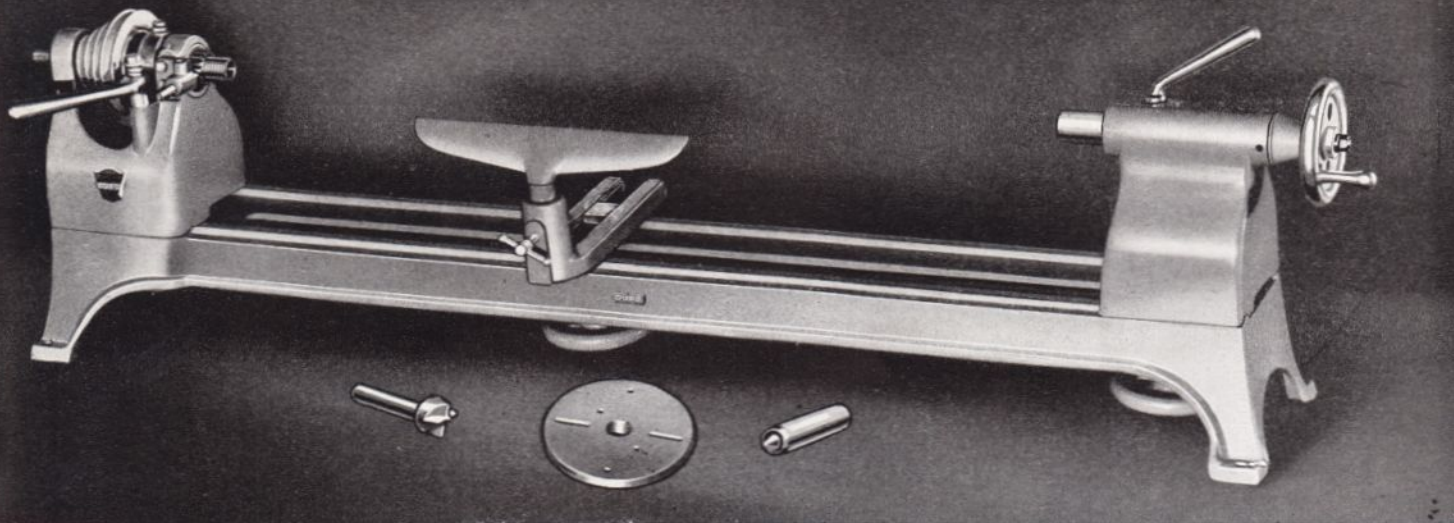
A full $2\frac{3}{8}$ " cut can be made with this production Bench Saw due to thoughtful designing of the table bracket. It is allowed to telescope over the spindle, giving the whole unit more compactness and better balance.

The 8" saw blade with $\frac{5}{8}$ " arbor hole (standard equipment) is a double purpose blade that rips and cross-cuts equally well. Blades are made of high grade alloy steel, correctly tempered. Built for production work. Our Saw Blades are hand hammered, filed and set to pass the most rigid inspection and are not to be confused with the usual type of blade sold specifically for the home workshop. See page 26 for other blades. Use 5" pulley on 1750 R.P.M. $\frac{1}{2}$ -H.P. Motor; 50' belt and No. 3676 steel stand. Ship wt., 105 lbs.

Friction Drive Rip Fence

The friction roller permits finger tip adjustment impossible with gear teeth and rack. Roller may be released, by pressure against turning knob, and fence moved quickly across table. Sliding bracket precision machined, enabling the rip fence to move across the table parallel with the saw blade, and obviating all binding. Handle locks the fence securely in position. No back bar and lock is necessary. Guide Bar is graduated in $\frac{1}{8}$ in.





DURO - PRODUCTION LATHE

SWINGS 13-Inch STOCK OVER BED

No. 3056

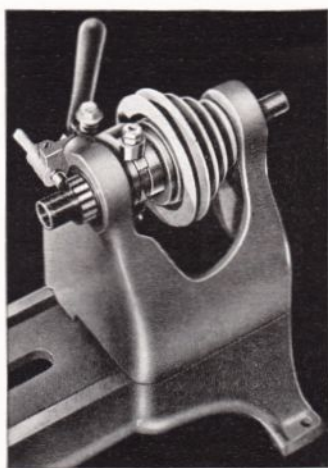
\$41⁵⁰

AS ILLUSTRATED

**36-Inch
Capacity
Between
Centers**

A Production Machine of outstanding quality and design, made of fine materials and incorporating many features and improvements. It meets the requirements of Master Craftsmen as well as those of the Production Shop. Characterized by strength, rigidity and lack of vibration under the most severe conditions. Carefully designed and machined to close limits with only the best grade of materials used. A Lathe that not only will handle the finest work with precision, but also one which sets a new standard in efficiency and economy of operation, and materially widens the range of work that can be done on woodworking Lathes.

The Weight is well distributed in Bed, Head and Tail stock. Weight provides strength . . . strength to withstand the constant pressure of the cutting tool . . . strength to hold perfect alignment between centers . . . and, most important, to eliminate vibration. The many features and improvements on this machine such as the Clutch control, milled index collar, and superior tailstock construction, illustrated and described elsewhere, make this machine the greatest all around value ever produced. Standard equipment on Woodworking Lathe consists of Belt, 6 inch Face Plate, Spur and Cup Center and 12 inch Tool Rest. Overall length, 54½ inches, width 10 inches, height 14 inches. Finished in durable corduroy gray enamel, baked on. Shipping weight 140 lbs. Use No. 305617 Pulley on ½-H.P. Motor and No. 3679 steel stand. Other accessories listed on page 27.



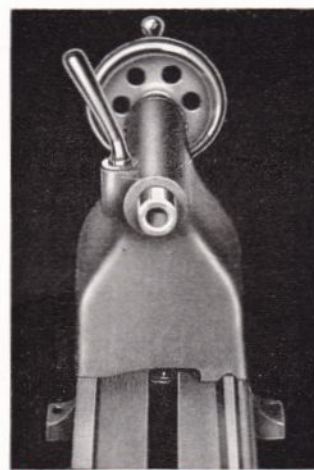
Clutch Control

Special feature! A convenient clutch is built into the head. The handy throw-out lever disengages the motor instantly, eliminating the necessity of shutting off the power when inspecting or changing work. No load when starting. Motor is permitted to gain speed, then engage clutch.



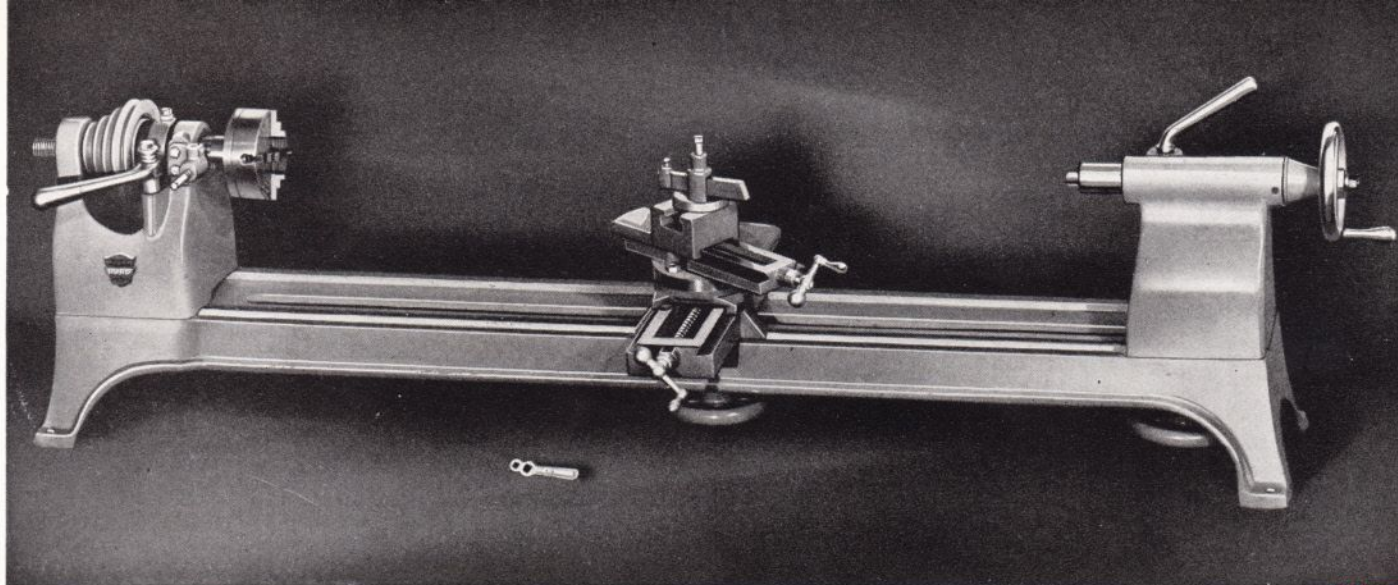
Improved Index

The index collar is an integral part of the spindle, milled into 16 equal divisions. A heavy steel plunger, held in position by a spring, locks the spindle in any position required. Strong, accurate and dependable, whether used for indexing, dividing or locking.



Tail Stock

Same substantial construction as the head stock. Flat and V ways milled in the same fixture as the lathe bed. Operated by hand wheel. The quill equipped with No. 2 Morse Taper, ejects its center when backed to the limit. A half turn of the handle locks quill in any position.



DURO-PRODUCTION LATHE

WITH METAL CUTTING ATTACHMENTS

The Bed is a high grade gray iron casting, heavily ribbed. "V" and flat ways are milled the entire length of the bed. Legs are $3\frac{1}{2}$ " high, permitting ample clearance for hand wheel adjustments and removal of shavings.

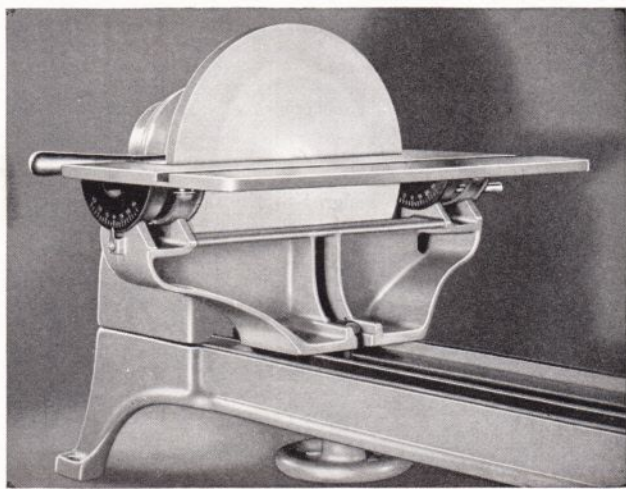
The Headstock is extra heavy and very rigidly built for a lathe of this size. "V" and Flat ways are milled to correspond with the bed ways, assuring positive alignment. It is cored to provide space to drive from below or in back. "V" ways eliminate vibration by providing wedging action where headstock is clamped to the bed. This manufacturing practice, standard on large engine and turret lathes, has proven to be the only practical method of mounting.

Permanently lubricated Ball Bearings mounted in Headstock carry the Hollow Spindle which has $\frac{9}{16}$ " opening and is equipped with No. 2 Morse Taper. Four step Pulley is mounted between the bearings, eliminating cramping and affording proper distribution of Radial and Thrust loads. Face Plate is cross threaded and may be used on either end of spindle. The Spur and Cup Centers, which have removable centers, are interchangeable.

The attachments illustrated above quickly convert this machine into an efficient metal cutting Lathe. The "V" type way on the Bed is absolutely parallel to a line drawn through the center of Head and Tailstock. "V" Way is milled in Compound Slide Rest at right angle to the transverse feed. This construction, which is used on the high priced Bench Lathes, is the only method known to guarantee accuracy. It further makes possible, *duplicate cuts*, as regardless of where it is set along the bed the Compound Rest lines up with the head and tailstock.

Any operation performed on a Bench Lathe can be done on this machine, especially if used with a Jack Shaft to obtain greater variations of speeds. The importance of this V way construction can not be over-emphasized. It eliminates vibration and consequent chatter which are bound to occur in other constructions. The V ways being pulled together cause a wedging action to increase the rigidity and eliminate chatter.

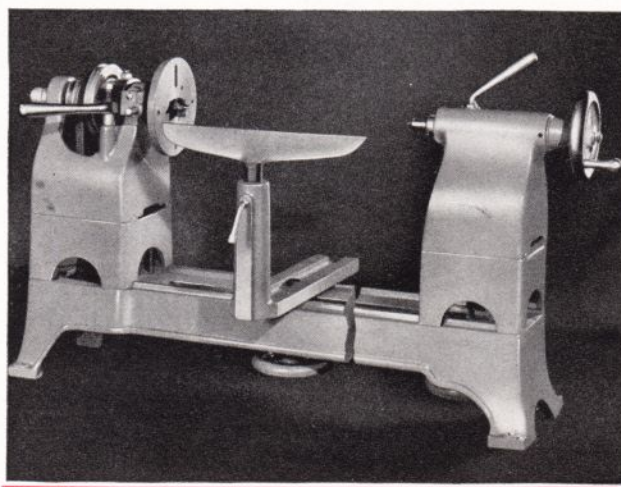
Metal Spinning, a craft daily increasing in popularity, may be successfully accomplished on this Lathe, because of its large capacity, 13" over the Bed.



Sanding Disc With Adjustable Table

Quickly attached to lathe. Heavy gray iron with 10" disc and large 10×16 " table. The table rides on double trunnions and is adjustable to tilt 45° in one direction and 15° in other. Table surface is milled and ground to a smooth surface. It has a slot for using mitre gauge. Shipping weight 26 lbs.

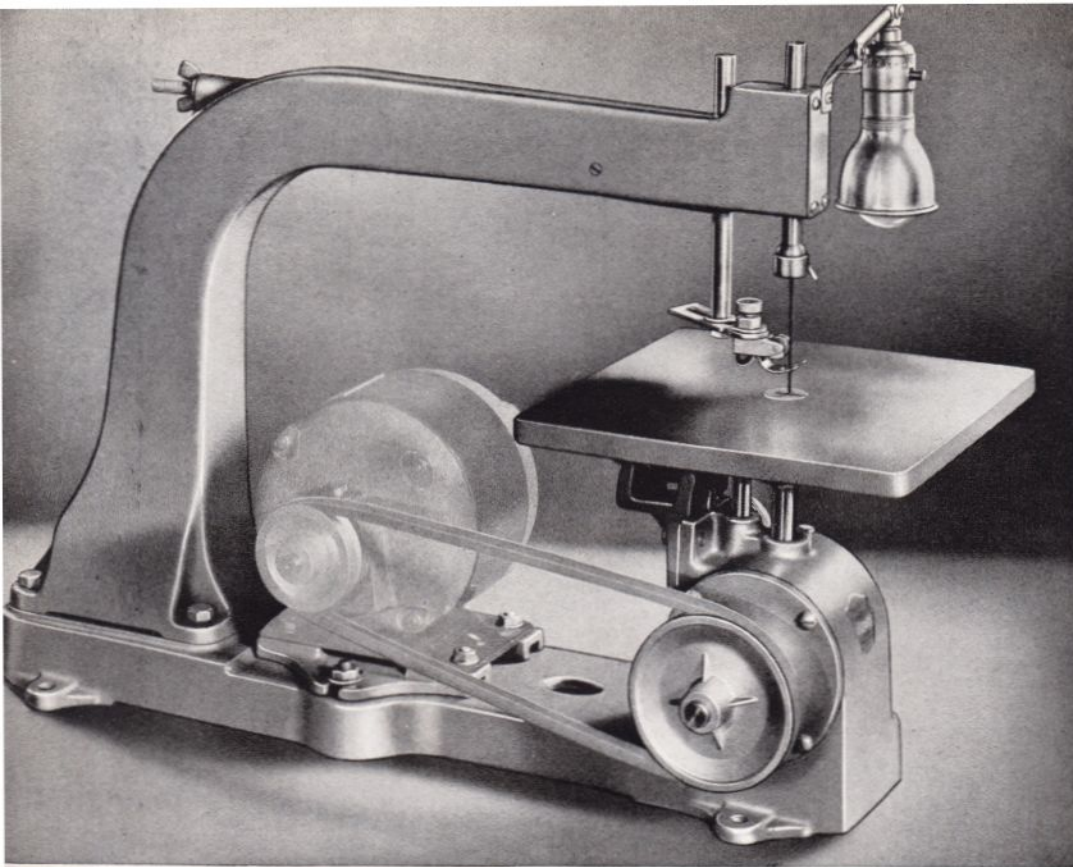
No. 305667—each \$9.50
 No. 3265—10" Sand paper; fine, medium or coarse, each 0.15



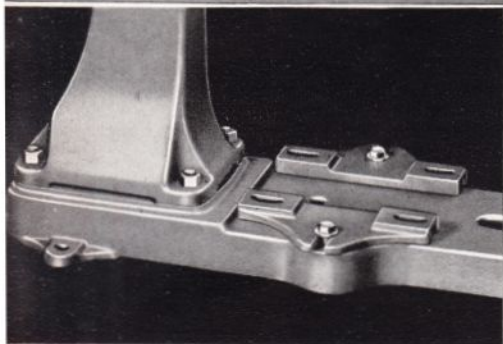
Pillar Blocks for Large Work

For increasing the capacity of the No. 3056 Lathe to permit swinging pieces 21" in diameter over the bed. Ideal for turning large pieces such as lamp bases and for metal spinning where a greater capacity is required. Carefully machined with "V" and Flat ways to match Head and Tailstock.

No. 305635—per pair, including tool rest holder and bolts \$7.25



No. 3003
\$19⁹⁵
 LESS MOTOR
 BELT AND PULLEY



Motor Base

Attached by hexagon head bolts, the base plates are adjustable to take various designs of motors. The elongated slots provide means for securing proper belt tension. Note that upper arm is secured to base by cap screws and may be removed for sabre sawing or filing.



Trunnion Mounting

Table is mounted on cast trunnion with double ways which operate on machined ways. Trunnion is graduated, pointer records the degree of tilt. Table tilts to 45° in either direction and is locked by cam lever.

The adjustable blade guide supports the blade under the table. It is adjustable both horizontally and vertically, to accommodate different width blades and for rigid support under the table.

DURO Heavy-Duty 16-In. Scroll Saw

- **Compact** — Length Overall 27½"; Height overall 18¾"; Width overall 10½".
- **Capacity.** Cuts to center 32" circle. With arm removed any size panel may be cut with sabre blades.
- **Mechanism.** Same high quality mechanism with all parts perfectly balanced as in Production Scroll Saw illustrated and described on opposite page.

An improved mechanism, quieter, smoother operation, a new spring hold-down foot and other features make this machine a credit to our slogan "Tools of Progress." Manufactured to meet the demands of the artisan requiring a compact machine that can be operated in a limited amount of space, it meets every requirement. This late model is even better and is an outstanding value. All the quality features and improvements (less pump) found in our Production Scroll Saw described on the opposite page have been incorporated in this machine to add to its value.

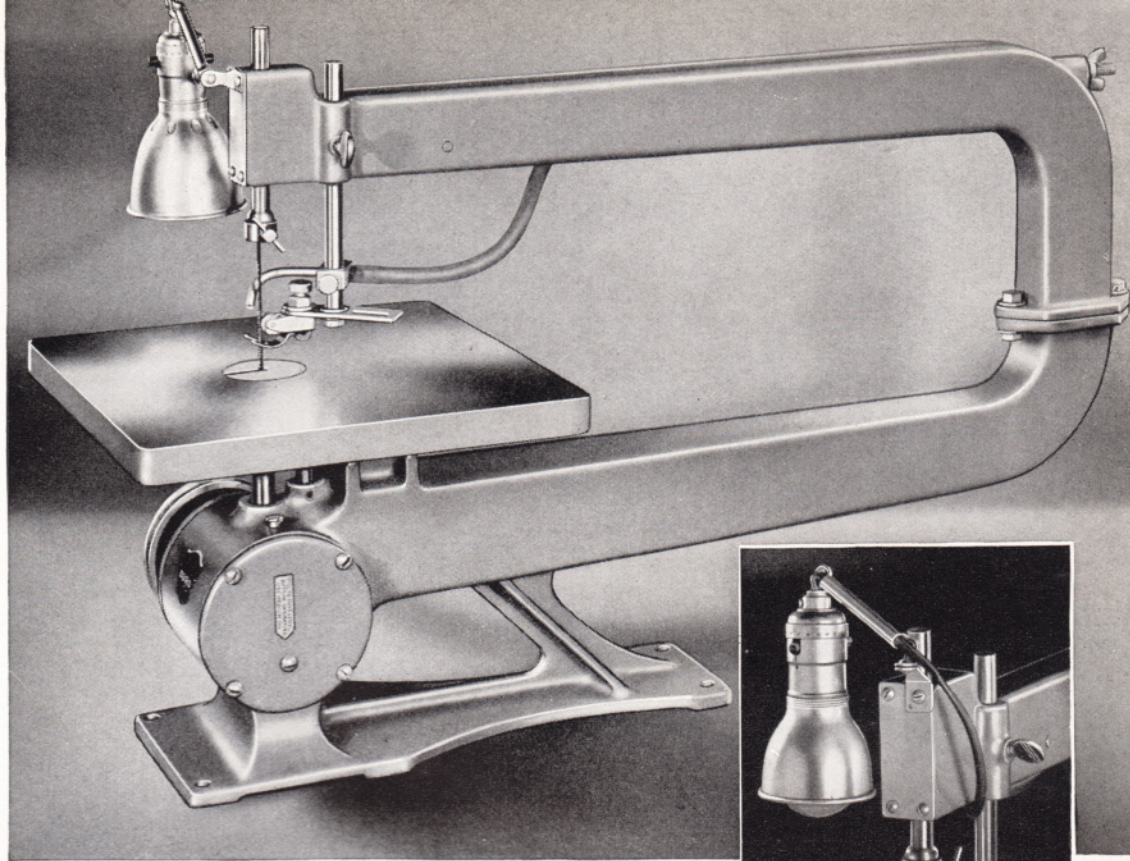
Vibrationless Performance

Vibrationless performance has been achieved by combining skilfully designed castings with a perfectly balanced mechanism. The base casting is made in one piece of the high quality gray iron with the weight evenly distributed to rigidly support the upper arm. The hollow box frame of the upper arm has, with reinforced ribs on the inside, the strength and rigidity to eliminate vibration. The driving mechanism is made of machined and ground parts held to close limits and correctly balanced. These parts are light in weight and will not produce the slightest strain, even on the finest blades. Running in a bath of oil, they perform smoothly and quietly. The tensioning device described more fully on the opposite page also tends to eliminate vibration.

The heavy 10 x 10 inch table with strong reinforcing ribs is made of high grade gray iron machined, then ground to a smooth finish and provided with aluminum disc to prevent damage to the blades. The table is mounted on heavy trunnion with double ways operating in machined ways. Trunnion is graduated to 45° in either direction and pointer records the degree of tilt. The upper and lower operating arms with their quick acting and efficient operating chucks are the same type as used on the production scroll saw. The same blade guides and improved hold-down foot are also used.

The motor mounting, described elsewhere, greatly enhances the value of this unit especially in close quarters. Will take ⅓ or ¼ H.P. motors but ¼ H.P. is all that is required to run this unit because it is so well balanced. Equipped with 4" pulley (use 2" pulley on motor for average work). Machine can be run at much higher speeds without decreasing its efficiency. Adjustable electric light with 10 ft. rubber cord and plug included. Ship. wt., 67 lbs.

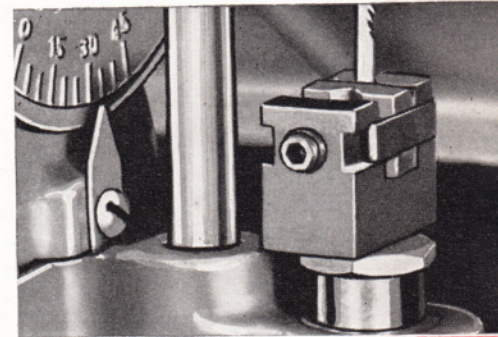
No. 3005
\$26⁹⁵
 AS ILLUSTRATED



Electric Light

Both scroll saws are equipped with adjustable electric light, a very important accessory for easier and better scroll saw work.

Polished aluminum with push key socket and 10 ft. of rubber cord with unbreakable plug. Bulb not included.



Tempered Steel Chuck

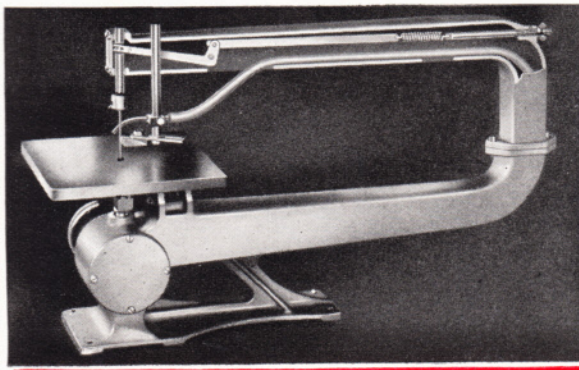
Made of hardened and tempered steel with adjustable jaws, it will hold the finest fret saw blades as well as the heaviest sabre blades. Hexagon head set screw tightens jaws to hold blades firmly. May be tightened without fear of breaking due to its rugged construction. Quarter turn of the locking nut releases chuck to turn it to right angle for ripping long pieces. Upper chuck may be turned to right angle by removing thumb screw and turning chuck jaws.

DURO - PRODUCTION 24-In. SCROLL SAW

The many improvements and refinements added to this new Production Scroll Saw make it an outstanding value. The virtual lack of vibration will prove a distinct revelation. The blades used are usually very small. While strong, they still are unable to withstand continuous vibration. By the design and construction of an extra-ordinarily substantial frame—by the use of a carefully balanced operating mechanism—and by an entirely new application of an adjustable spring tension housed in the upper arm—our engineers have accomplished a smooth, vibration-free action that is outstanding.

The materials used are of very fine quality. The solid gray iron main casting and upper arm are of the hollow, full box style construction. The balanced crankshaft and the hardened steel movement are enclosed in a dust-proof casing and run in a constant bath of oil. Heavy gray iron table 12" x 12" is machined and ground. Aluminum disc provided to protect blade. The upper chuck spindle runs in two self-lubricating bearings keeping the blade absolutely vertical. An air pump blows sawdust away from work. Adding all these excellent features to those of superior workmanship and materials makes it easy to appreciate why we consider this Scroll Saw an excellent value.

Bottom half of the frame is an integral part of the main housing. This unit is a hollow box casting which insures strength and rigidity. It is of high grade gray iron, well-ribbed and standing on a strong, well-balanced base. The upper arm is of the hollow type, also made of gray iron and designed to reduce vibration to a minimum. The operating mechanism is actually as carefully designed and balanced as the crankshaft of a fine automobile. An air pump, with inlet and exhaust valve and no back suction, efficiently blows the sawdust clear of the cutting line. Equipped with 4-inch V Pulley. Use 3-inch pulley on 1/4 H.P. Motor; 50-inch belt and No. 3677 steel stand. Shipping weight, 85 lbs.



Spring Tension

Illustrated at left is a new and exclusive device for setting the saw blade to an even tension at all positions of the stroke. The importance of setting the tension on a jig saw blade according to its size and width is as great as that of setting the tension on a band saw blade. The wider and heavier the blade, the greater the tension required. This tensioning device is simple and efficient. By turning a wing-nut at the rear of the upper arm you get the proper spring tension. The spring moves only one-fourth the distance required in all other types of scroll saws, minimizing crystallization and assuring far longer spring life. This method of adjustment also increases the life of saw blades.

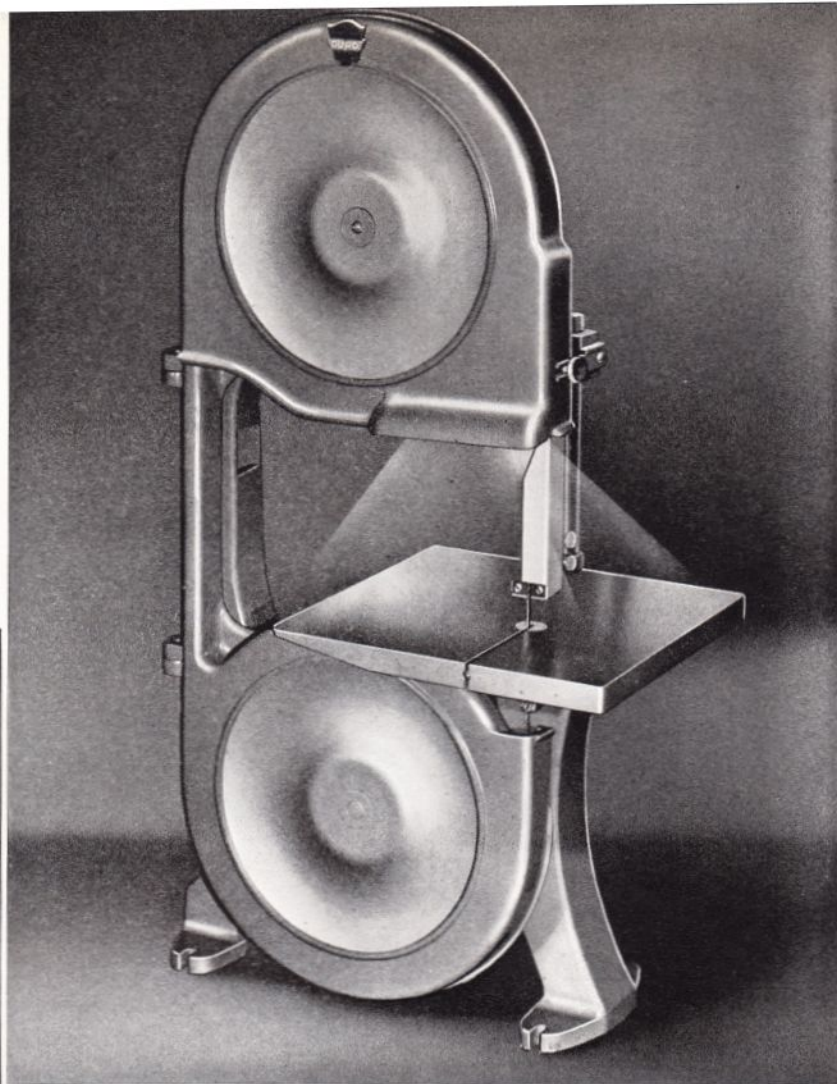
DURO PRODUCTION

BAND SAW

No. 3020

\$29⁹⁵

AS ILLUSTRATED



Capacity With Guard Closed 12¹/₈" x 5³/₄"

Improved guides for greater accuracy . . . heavier and larger guards with built in electric lights . . . corduroy finish and many other features make our 12-inch band saw a greater value than ever. Dependable and economical in operation it is an ideal machine for the production shop, school or home craftsman.

It is massive and perfectly balanced to give it the strength and rigidity required to do all work, within the limits of its capacity.

Extra Heavy Construction

The extra strength built into the one piece full box frame provides the necessary strength and rigidity to enable these band saws to stand up far beyond the ordinary life of this type of machine. Vibration . . . the factor which most commonly breaks down a band saw and causes excessive blade breakage is virtually eliminated by the massive construction of the frame . . . the heavy, upper wheel housing assembly . . . and the weight and balance of the wheels.

The table, 12 x 12 inches, is a heavy gray iron casting of high quality, heavily ribbed and surface ground to provide a true surface. Removable aluminum disc protects the blade from injury. Table tilts on a massive double way trunnion which operates on carefully machined ways in the frame.

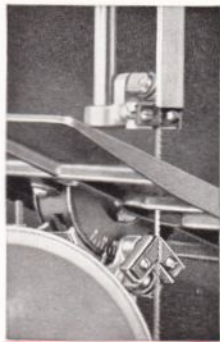
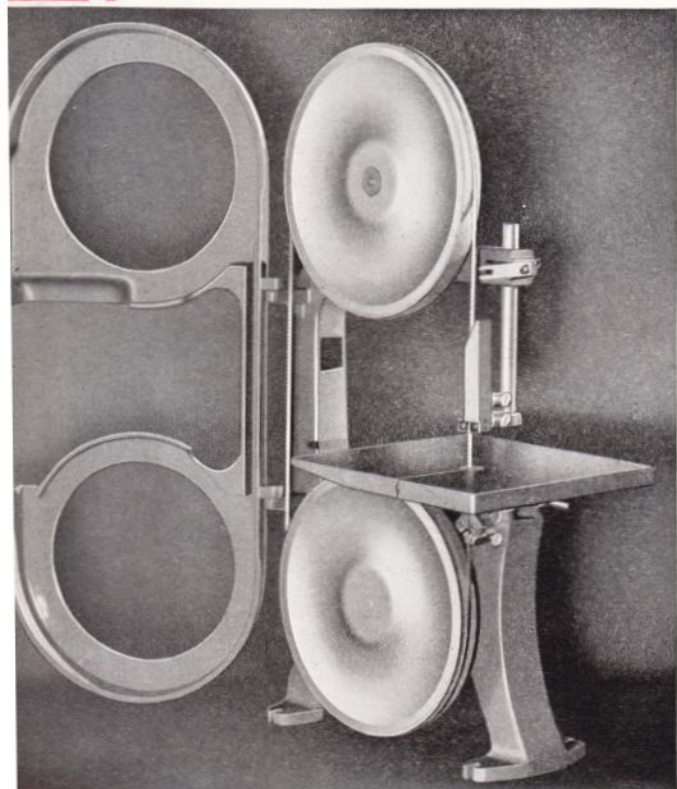
Guarded Blades—Disc Wheels

A safety saw guard completely covers the blade except at the cutting point. Guard is one piece and opens quickly for changing blades. Auxiliary guard attached to upper guide. With guard closed, material 5³/₄ in. thick may be cut. Capacity increased ¹/₂ in. with guard open. Cuts to center of 24 in. circle.

Disc wheels are of solid construction, dynamically balanced and dished to bring radial load directly over the bearing. This reduces side thrust and eliminates excessive bearing wear. Each wheel is crowned and rubber tired, then balanced and checked for proper alignment. Upper wheel is equipped with two self-sealed New Departure ball bearings.

¹/₄-inch blade is standard equipment. Other sizes shown on page 26. Saw is equipped with 6¹/₂ inch pulley. For average woodcutting use 2¹/₂ inch pulley on 1750 R.P.M. ¹/₈-H.P. Motor; 53 inch belt and No. 3677 steel stand. For cutting metal use 1¹/₂ inch pulley. Height 38 inches. Shipping weight 100 lbs. Price includes electric light with 10-ft. rubber cord and plug, less bulb.

3766—Special Bulb for Saw \$0.35



Improved Guides

Note the lower guide—close to the under side of the table, it gives the proper support for accurate work. Made exactly like the 16" Band Saw Guides, illustrated on page 3, it has concave rollers, and the same independent adjustment.



Trunnion Mounting

The trunnion is rigidly mounted in double ways that are carefully milled in the frame. It is graduated and a pointer records the angle of tilt. Automatic stops are provided at 45 and 90 degrees. A cam lever locks the table.

DURO PRODUCTION Spindle Shaper

No. 3091

\$18⁹⁵

SHAPER ONLY

For Production or Home Workshop

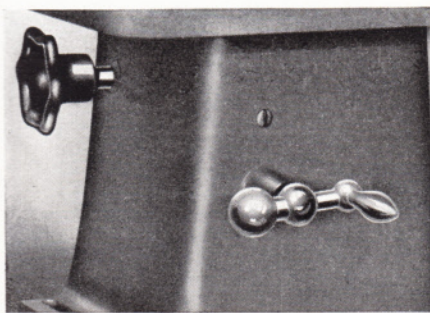
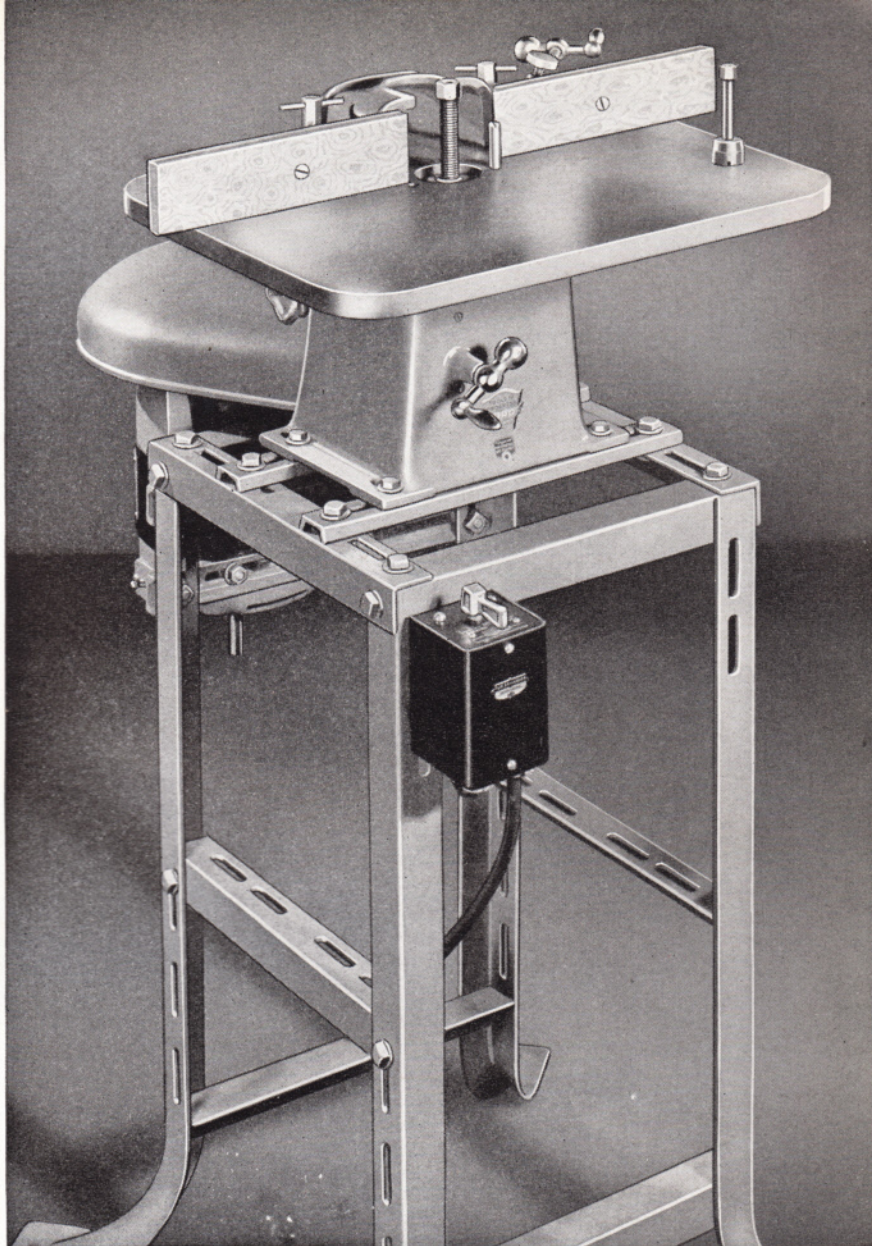
An excellent quality, smooth running ball-bearing shaper with generous sized table and micrometer adjustments. Like all tools that bear our name plate, its rugged construction, lasting durability, finer machining and outstanding finish are apparent at a glance. It is a precision built, properly balanced unit that will operate freely and without trouble on continuous service on any work that comes within range of its capacity. By careful designing and the use of high quality materials, vibration has been reduced to a minimum. This permits cutters to be run at the high speeds necessary to produce clean, smooth cuts, free of ripples and cupping.

Plenty of Weight for Smooth Operation

The heavy table, ribbed for greater strength, is cast from high quality close grained gray iron, properly seasoned before machining to prevent warpage. The table, 14 x 18 inches, is milled and machine ground to a smooth accurate finish. A heavy substantial gray iron base is closed on three sides to effectually protect the working parts. The quill housing is integral with the base to produce greater strength and rigidity and reduce vibration to a minimum. Operation in either direction is afforded by the unique design of the spindle and adaptors. Two adaptors are provided to fit both sizes of cutters. They are quickly interchangeable and have eliminated the necessity of reversing the spindle. Equipped with 2 inch pulley. Use 8-inch pulley on $\frac{1}{8}$ H.P. motor; 37-inch belt and No. 3676 steel stand. Entire machine is finished in corduroy gray baked enamel. See page 28 for complete line of both $\frac{5}{16}$ and $\frac{1}{2}$ inch chrome vanadium steel cutters. Shipping weight, 41 lbs.

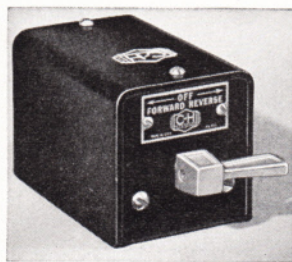
Extra Guard for Added Safety

Made of cast aluminum and finished to match tools. Easily attached to Stand. Completely covers rotating belt. 309030—Guard only \$3. 75



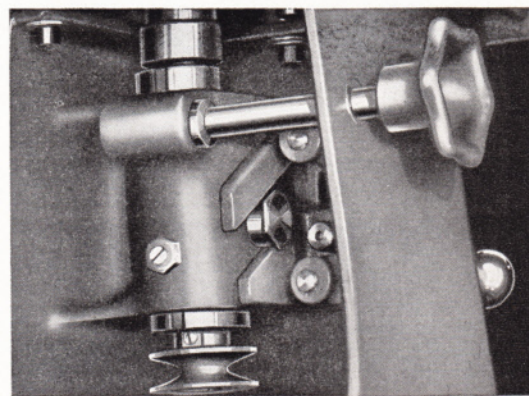
Micrometer Adjustment For Raising and Lowering

The raising and lowering device is positive in action and accurate to a degree. The screw is of fine pitch so that very close and accurate adjustments may be made. One complete turn of the conveniently located ball crank handle raises the spindle only $\frac{1}{32}$ inch. Such precision makes repetition and compound cuts simple. It also widens the scope of the shaper, permitting many more varied designs to be made. Our tools invariably provide a greater range of utility.



Reversing Switch

Invaluable for units driven in both directions. Three positions: Forward, Off and Reverse. May be used on any split phase, direct current or 3-phase motor up to $\frac{1}{2}$ H. P. capacity. Repulsion-Induction motors are reversed by shifting the brushes. Ship. wt. 5 lbs. 3760 \$3.50



Spindle Assembly

The mounting of this spindle is an outstanding achievement. An examination of the illustration will show that the spindle is mounted on permanently sealed New Departure ball bearings and is enclosed in a heavy $1\frac{1}{2}$ " diameter quill. The quill is mounted in the main frame in an unusually substantial manner. With this heavy support vibration is reduced to a minimum. Raising and lowering of the quill is accomplished by the cam action on the roller bearing.

DURO-P CARVER - R



Improved motor . . . 14 x 18 table . . . improved spindle design . . . shaping adaptors . . . starting pins . . . control plate and guide pins.

No. 3100

\$125⁰⁰

COMPLETE AS ILLUSTRATED

- **Power** . . . The General Electric Universal Motor develops over One Horse Power.
- **Bearings** . . . Armature mounted on four heavy duty New Departure precision Ball Bearings.
- **Balance** . . . Armature, Spindle and Adaptors statically and dynamically balanced to produce smooth operation.
- **Speed** . . . Spindle turns approximately 20,000 R.P.M.
- **Weight** . . . 200 lbs. of steel and gray iron carefully designed to assure strength and rigidity.
- **Production** . . . Built to meet furniture factory requirements.

UTILITY AND COST

The combination Routing, Carving and Shaping machine has had a tremendous success since it was first put on the market and with the many improvements now incorporated in this machine it has a value to those making furniture, either in the production field or the expert craftsman, far beyond any machine yet produced. Yet it is priced within the range of the average individual.

The cost of individual machines to accomplish the same work with the same degree of efficiency has, in the past, been far beyond the means of the small production shop or the homecraftsman. The operating cost has been a serious item to the large manufacturers. Our machine with its many improvements will prove a revelation to all in its ability to produce carving, routing and shaping designs with speed and accuracy at a minimum cost.

DESIGN and CONSTRUCTION

Some of the features . . . a heavier motor with improved cooling fan . . . advanced design in spindle construction. Spindle is hollow and shanks of Router bits are inserted in chuck flush with front bearing . . . close to the bearings all whip and vibration is eliminated.

The specially designed General Electric motor operates on A.C. or D.C. current, 60 cycles or less and develops over one Horse Power. Motor parts are statically and dynamically balanced and designed to run continuously without overheating.

The motor is mounted on the end of 2-inch ground tube which may be swiveled in any direction to meet the operator's convenience.

The spindle is hollow. The chuck which holds all adaptors is immediately adjacent to the front bearing. The shanks enter the hollow spindle. The chuck is positive and easily released by wrenches supplied. Router bits and cutters being close to the front bearing eliminate vibration.

The main frame and table is made of a high quality gray iron. Each part is carefully and accurately machined. The Routing or Shaping Table which is 14 by 18, is machined and surface ground. The table raises and lowers on machined, dovetailed ways, which are adjustable. Convenient stops are located on the left hand side which control the travel of the table. A lock on the right hand side of the main frame permits the table being set to any convenient height when shaping.

Standard equipment includes unit as illustrated at left with control plate and guide pins for duplicate routing; carving adaptor; $\frac{5}{16}$ and $\frac{1}{2}$ inch shaping adaptors; adjustable shaper guard and guide; 10-feet of 3 wire safety cord, plug and switch. Finished in Corduroy gray baked enamel. Height overall 49 inches. Shipping weight 220 pounds.

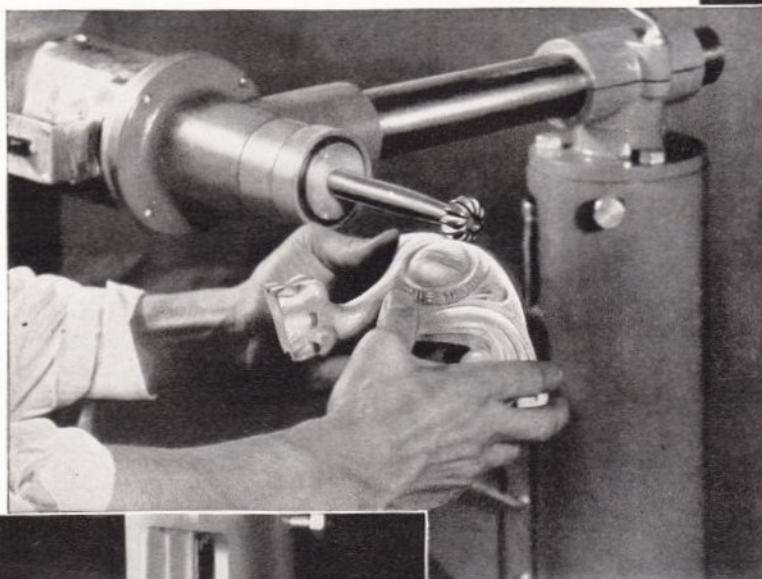
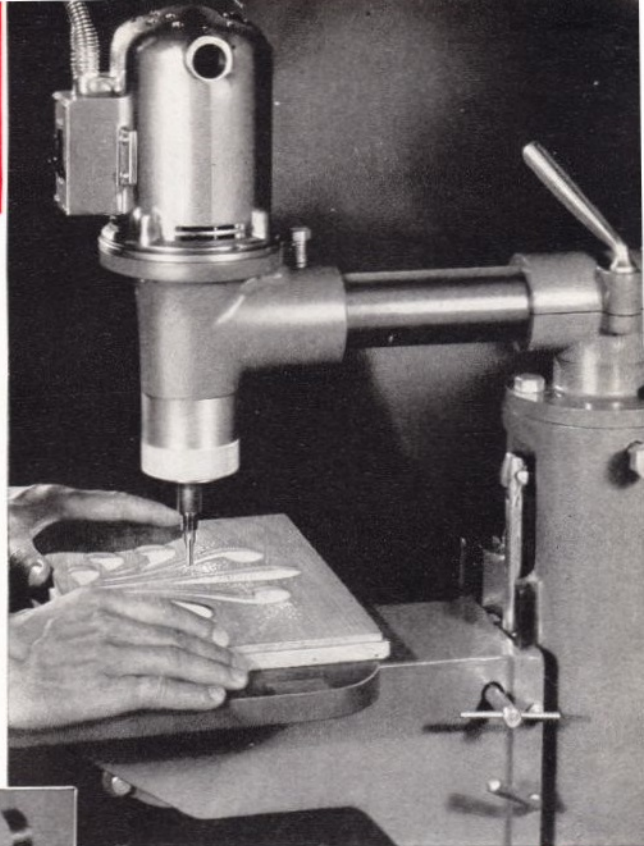
PRODUCTION ROUTER - SHAPER

ROUTING

The illustration at right shows how routing, inlaying or veining is done in a production manner. Formerly, this type of work was accomplished under difficulty in the small factory or home shop and only at great expense in machinery and operating costs in the large factory. Now it may be accomplished on this machine at a reasonable outlay and minimum operating expense with speed and accuracy.

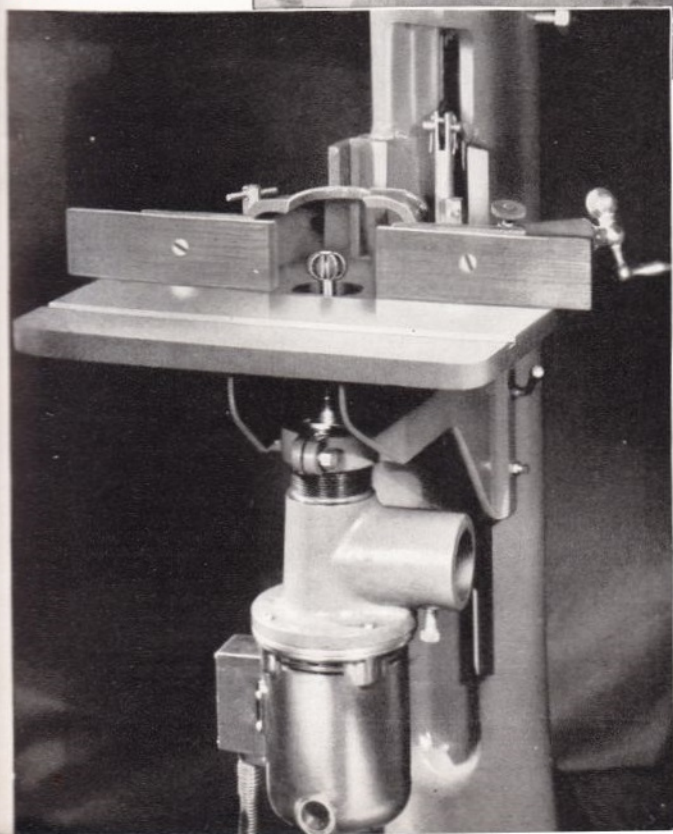
The high speed of the motor . . . 20,000 R.P.M. . . the careful design of the spindle to enable router bits to be held close to the front bearing and the weight and rigidity of this unit insures smooth cuts and clear work at a high rate of speed.

To use as a router the head is released by handle at the extreme right, swiveled until the spindle is directly over the guide pin and locked there. The depth stops on the left side of the main column should be set to the depth required so that the foot-feed will raise the table to a given position and permit enough stroke to clear work when released. Duplicate routing or veining is accomplished by jig sawing a relief pattern, putting a frame around the pattern, then placing it over the guide pin and putting the wood which is to be routed or veined in the frame. See page 28 for routing bits.



CARVING

Spindle carving in furniture factories is accomplished in a similar manner. By far the largest majority of carving is done on a spindle carver and not by hand chisels. Visualize the speed and smoothness with which carving is accomplished on this Carver; the spindle traveling at a cutting speed of 16,500 R.P.M. and the average cutter having from six to fourteen cutting edges, produces up to approximately 230,000 cuts per minute. This eliminates the grabbing effect encountered in trying to do this work on Drill Presses or other make-shift equipment for carving. This extreme speed, with dynamically and statically balanced parts, produces an action similar to filing. The lightest materials may be carved easily. See page 28 for Cutters.



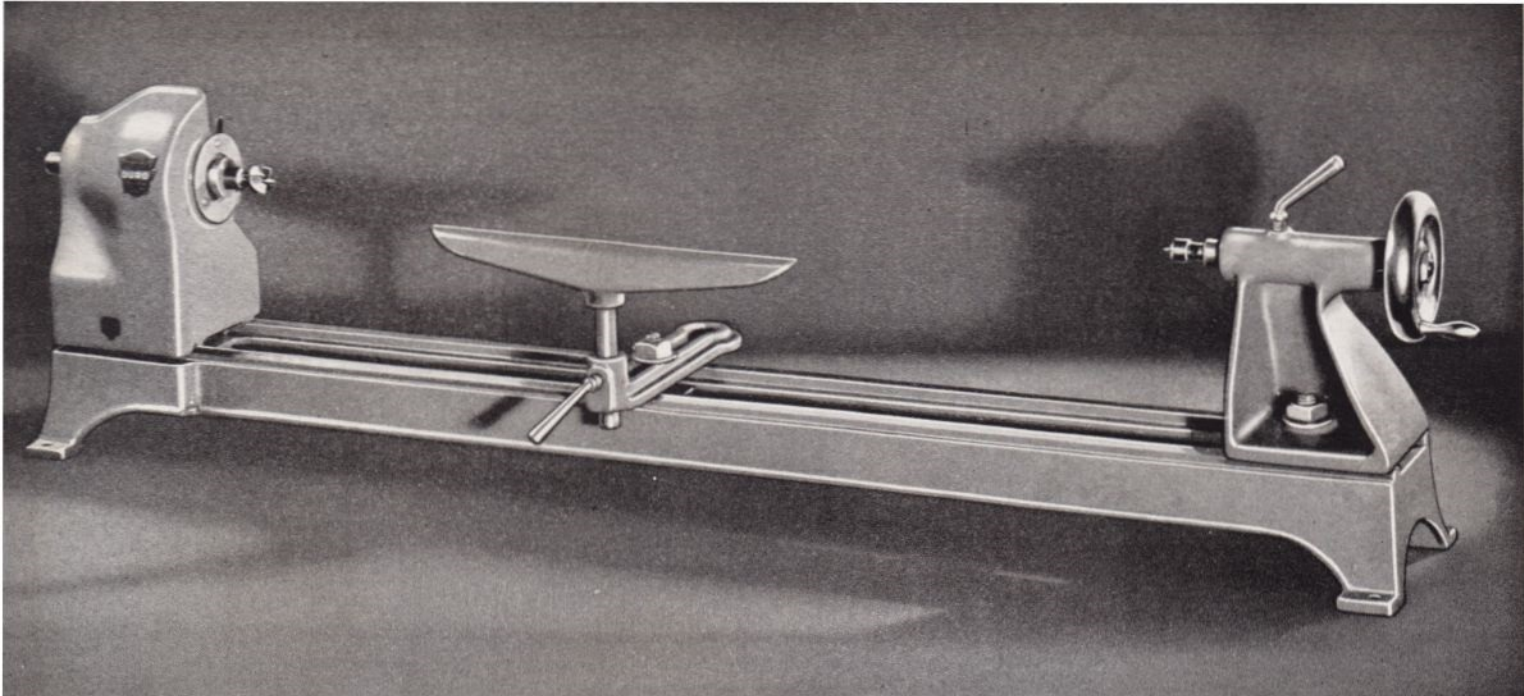
SHAPING

You will be just as surprised as many old time woodworkers were when they first operated this combination machine as a shaper. It makes shaping as easy as sawing a board and will handle the largest shaping cutters ($1\frac{3}{4}$ ") at their maximum depth without any effort. This Unit will handle fragile, circular or end grain pieces without vibrating, as easily as it will heavy straight grain pieces.

Again it is the extreme high speed and power of the tool which makes it possible to handle this work with such ease. It takes but a minute to convert the carver to a shaper. To make this conversion, loosen only one set screw and remove thread protector on spindle housing. Then screw motor into lower part of shaper table. To raise or lower height of cutter, screw motor to the right or left.

Adaptors are inserted in chuck and may be easily removed. Adaptors for $\frac{5}{16}$ " and $\frac{1}{2}$ " cutters are furnished. A lock on side of main table base will hold table firmly in position.

Depth collars may be used for irregular work. Adjustable fence is provided for straight work as shown in illustration at left. See page 28 for Cutters.



DURO

HEAVY DUTY LATHE

10-Inch Swing

31 Inches Between
Centers

No. 3053

\$15⁸⁵

AS ILLUSTRATED

Note the new guarded head with large New Departure Sealed Ball-Bearing. The safest, most modern head stock ever built into a lathe of this size. An excellent example of our factory policy of bringing the efficiency, strength and capacity of really high class tools down into the moderate priced field. Bed, head and tailstock are remarkably advanced in design. The precise and perfect alignment of head and tailstock, the proper suspension of the pulley and the accurately milled ways all combine to give great strength and to produce quality work.

Vibrationless performance, the most important requirement in successful woodturning . . . is a most outstanding feature of this tool. Maximum rigidity is obtained through the "V" and flat way construction and by holding all machining to close tolerances.

"V" and Flat Way construction is standard

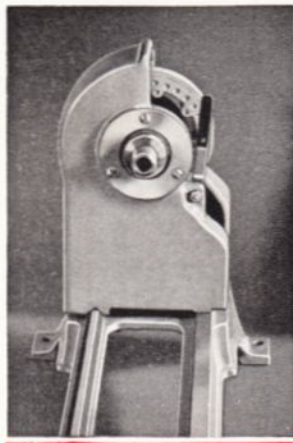
practice on all large machinery and has proven to be very satisfactory. The "V" way in the bed and the corresponding "V" in the headstock and tailstock create a wedging action when clamped together. Proper alignment of the head and tailstock is assured by the fitting of the "V" and Flat ways. The bed legs which are an integral part of the bed casting provide clearance under the bed for easy removal of chips.

Metal cutting can be done on this Lathe. A special Compound Slide Rest with "V" ways insures rigid mounting and the making of accurate duplicate cuts. Other attachments on page 27. Standard equipment consists of 12" Tool Rest; heat treated No. 1 Morse Taper; Spur and Cup Centers with removable points. Use pulley No. 341505; $\frac{1}{2}$ H.P. Motor; 48" belt and No. 3678 Steel Stand. Shipping Weight 60 lbs.



Guarded Head

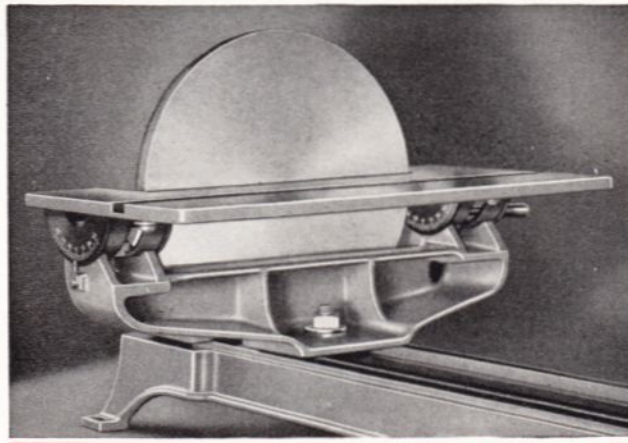
One of the finest, safest and most modern head stocks ever built into a lathe of this size. Guard protects the operator from the front of the lathe yet leaves plenty of room to change belts from one speed to another. Belt may be driven from back or below. Extra large New Departure Sealed Ball Bearing takes end thrust and radial load.



Indexing Head Stock

This new headstock with balanced four-step pulley is provided with one row of thirty-two holes and one row of eight holes, accurately spaced for indexing, making it invaluable for fluting, or laying out work when metal cutting.

The polished steel spindle, $\frac{3}{4}$ " in diameter, has $\frac{3}{8}$ " hole drilled through it. Takes No. 1 Morse Taper attachment.



Sanding Disc with Adjustable Table

The addition of this new accessory will convert your lathe into a disc sander at very low cost. The 10" disc is threaded for attaching to spindle and the four step pulley provides four speeds. The table and frame are attached to the bed by tool rest clamp.

Made from heavy gray iron finished in corduroy gray baked enamel to match lathe. Large 10" disc with smoothly finished face. Heavy gray iron table 10" x 16" in size with milled and ground surface and slot for using mitre gauge. The table rides on double trunnions and is adjustable to tilt 45° in one direction and 15° in other direction. Shipping weight, 26 lbs. 305367—Each \$9.50
3265—10" Sand paper; fine, medium or coarse, each 15

DURO

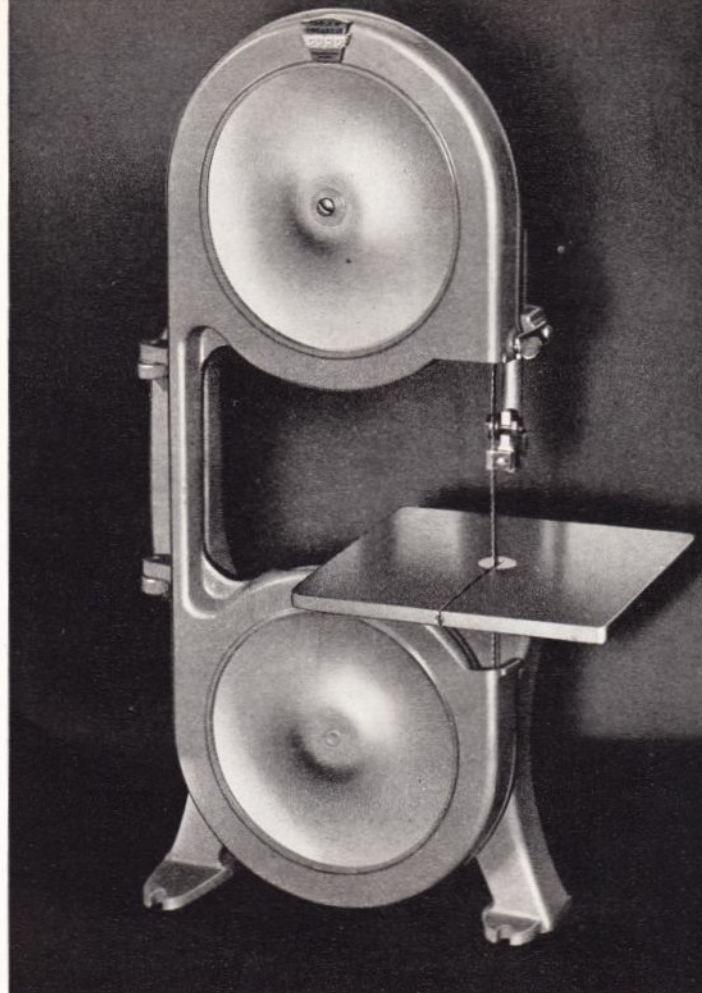
9-Inch BAND SAW

For the home craftsman or the shop requiring only a 9-inch saw a finer machine would be hard to find. With all the features of larger factory band saws, it will provide smooth, true cuts and lasting, dependable service at a minimum outlay and with a minimum upkeep cost.

The deep channel frame is cast in one piece of fine quality close grained gray iron. Semi-box type construction and heavy cross ribs prevent warpage and consequent misalignment of wheels. All machining is held to very close tolerances to produce finished products of the highest standards.

The 9 by 9-inch tilting table, of the same material as the frame, is machine ground to a smooth accurate surface after ageing in the same manner as larger factory tools. A large trunnion with double ways supports the table. The most expensive and efficient type of wheels are used as they are a most important contributing factor to the efficiency of a band saw. Wheels are solid, with large hubs, and dished so that the load strain comes directly over the bearings. Properly crowned, with live rubber tires added, they are finally balanced to insure smooth, true running.

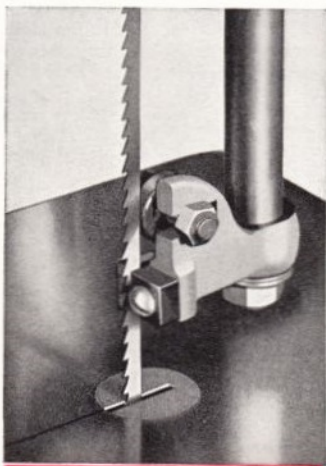
The spindles are carefully ground and polished. Bearings are of the best quality self-lubricating bronze. Note the guard. It is cast in one piece and covers the wheel and blade except at the front where work is done. It is held only by one lock screw and may be quickly opened to change blades or obtain added capacity. There is fully 9 inches from blade to saw guard. Depth capacity 4 1/4 inches with guard closed; 4 3/4 inches with guard opened. Standard equipment consists of the saw with guard, 4-inch pulley and 1/4-inch blade of highest quality. Other size blades listed on Page 26. Use 2" Pulley on 1750 R.P.M. motor to obtain proper speed in wood, a slower speed in soft metals. Finished in corduroy gray baked enamel. Shipping weight 50 lbs.



No. 3025

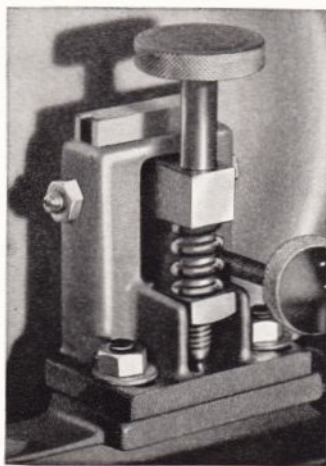
\$15⁷⁵

AS ILLUSTRATED



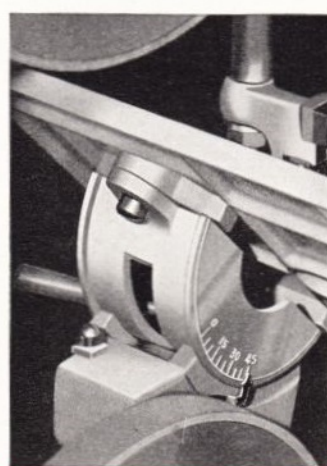
Roller Saw Guide

The saw guide is of the roller type with the blade running on the edge instead of the side of the hardened steel roller guides. This reduces friction to a minimum. A large aluminum disc is set in the center of the table to prevent damage to the blades. Guide may be raised and lowered to take care of various thicknesses of wood.



Blade Adjustment

A very accurate and positive method of holding and adjusting the upper wheel. Convenient hand screws permit adjustments in either horizontal or vertical positions to perfectly align the upper and lower wheels and put the exact degree of tension on the blade. An exact duplicate of the device used on the 12" Production Band Saw.



Trunnion Mounting

The sturdy trunnion slides in a milled saddle in the frame and is instantly clamped with a convenient cam lever. An adjustable pointer indicates the angle of tilt. There is quick adjustment to any angle from 0 to 45 degrees. Automatic stop is provided for squaring table . . . the most frequently used position. The table is heavy cast iron, surface ground.

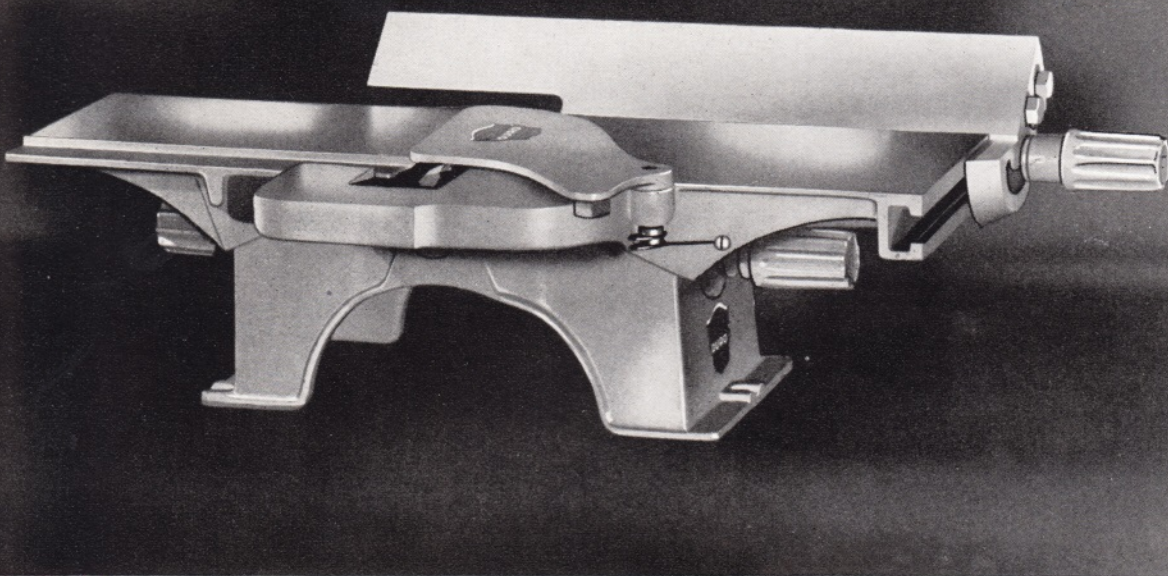
No. 3030

\$13⁴⁵

AS ILLUSTRATED

Safety type three blade cutter head

New lever lock parallels tables



DURO

HEAVY DUTY JOINTER

An excellent quality jointer that combines solidity, smoothness and accuracy. It is heavy and sturdy, and has many refinements offered only on much higher priced machines.

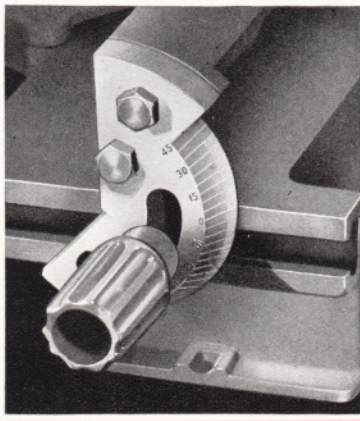
Produces an absolutely smooth surface, free from cupping.

Castings are of fine quality close grained gray iron. The base is unusually rugged; heavy cross ribs add great strength and rigidity. To insure a smooth even flow of power the cutter head is mounted on a ground and polished shaft and dynamically balanced after blades and chip breakers are assembled. Blades are of high speed tool steel. A guard completely covers the cutter head, swinging out of the way when material is passed over the jointer and instantly returning by spring.

The blades cut to 4 inches in width with 1/4-inch maximum depth. The cutter head runs on extra heavy and extra long, self-

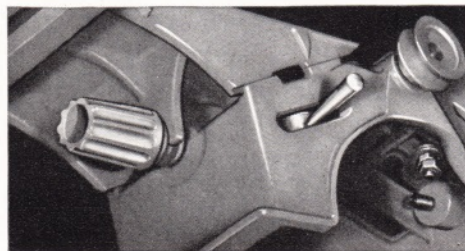
lubricating bronze bearings. The bearing supports are an integral part of the main frame. Front and rear tables are extra heavy castings, well ribbed. They are rough ground, seasoned, and then finish ground. As a consequence, there can be no warpage of the finished product. Surfaces are accurate. The tables are sufficiently long to support heavy work without teetering. Extra long carefully milled ways insure accurate adjustment for cutting depth. Hand knobs operate the raising and lowering of the tables.

The tables are approximately 21 inches overall. The front table is 5 inches wide with 3-inch rabbetting arm. The rear table is 5 inches wide over rabbetting ledge. Height to top of table, 5 1/2 inches. Furnished with 1 1/2-inch pulley. Use 4-inch Pulley on 1750 R.P.M. Motor to obtain proper speed. We recommend 1/3 H.P. Motor. Attractive baked-on corduroy gray enamel finish. Shipping weight, 36 lbs.



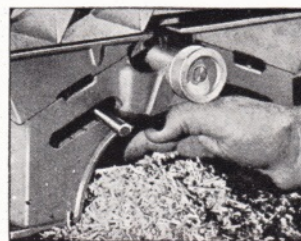
Protractor Scale

A sturdy guide, self aligning. Simply turn the convenient hand knob. Unusually rigid and satisfactory in operation. An easy-to-read and accurately graduated protractor scale permits setting the guide to any angle up to 45° in either direction.



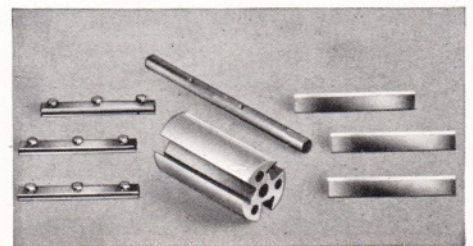
Lever Lock Front Table

The front table is equipped with a cam lever located on the side of the base. A quarter turn of the lever locks the table solidly at any height. Even when working with heavy material cuts are straight. An accurate joint is assured because table is locked to the main frame and does not tilt forward a fraction of an inch. This is a convenience usually found only on jointers that sell at much higher prices. Knob for raising or lowering is located in center to eliminate binding.



No Chip Clogging

A great convenience. The base of the Jointer is sufficiently high to permit easy removal of the chips and prevent their clogging the blades. Also shown in the illustration are the inclined ways on which the tables raise and lower. These ways are milled in the same fixtures as the table ways. Thus, absolute uniformity and perfectly parallel tables are insured.



Round Type Safety Head

The cutter head shown above is of the three blade type with three chip breakers. Blades are of fine quality high speed tool steel, properly heat treated to maintain long cutting efficiency. The cutter head is balanced after the assembly of blades and chip breakers. For this reason this Jointer can be speeded up to 4000 or 5000 revolutions . . . 15 to 18 thousand cuts per minute . . . with a consequently greater smoothness of cut.

DURO

Standard Duty DRILL PRESS

No. 3082

\$12⁸⁵

COMPLETE WITH 4-STEP PULLEY
AND BELT, LESS MOTOR

No. 3083

\$17⁸⁵

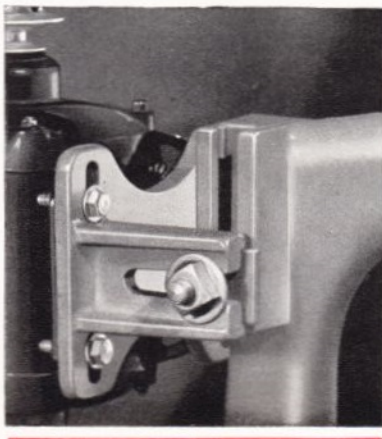
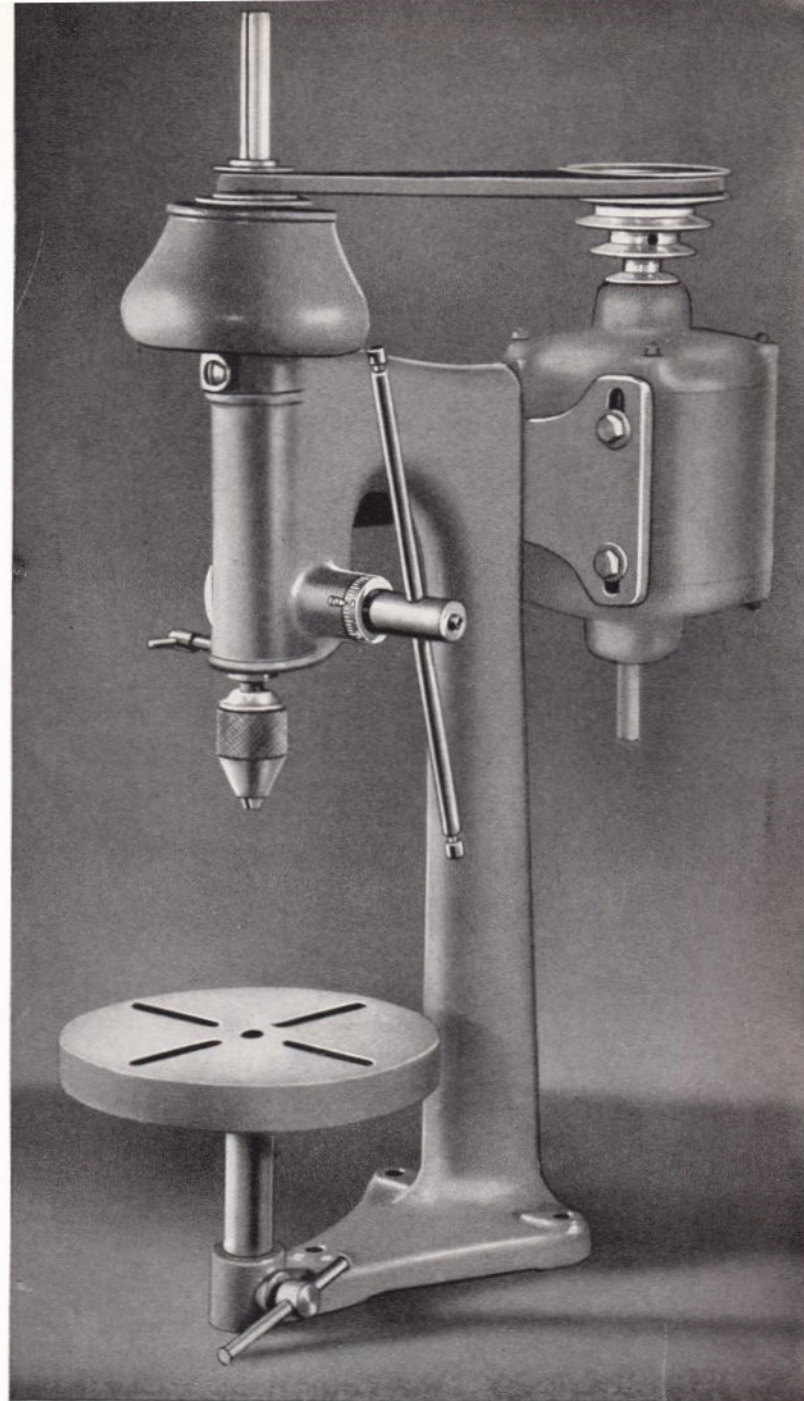
WITH JACOB'S CHUCK

Built to serve the purpose of the home workshop where the need justifies only a small investment but where strength, capacity and accuracy are still important. It brings to the low priced field an entirely new standard of efficiency. Unlike most low priced Drill Presses, which show unmistakable evidence of sacrifices in quality to get the price down, this tool is of the same general construction throughout as our higher priced, heavy duty drill press.

There is the same relative massiveness in the castings, the same heavy head casting, a large adjustable motor bracket and 4-step pulley, the same precision adjustment for depth. One might reasonably expect a light machine at this price, but not this Drill Press. Every casting is of heavy, seasoned, close-grained gray iron.

Probably the most outstanding feature of this tool, in comparison with other moderate priced presses, is the mounting of the spindle, which runs on large self-lubricating bronze bearings adequate at all times for taking the radial load. A thrust bearing takes up the end thrust. Thus the spindle is held in perfect alignment. Horizontal strain from the motor pulley is eliminated because the spindle pulley is mounted independent of the spindle. All pull is on the long pulley bearing. Cramping of the spindle is eliminated and freedom from wear is assured.

An excellent quality 3-jaw chuck with a capacity of 0 to 1/2 inch in metal is furnished. The table is heavy cast iron machine ground and slotted. It measures a full 8 inches in diameter. Maximum distance from chuck to table is 7 3/4 inches. Maximum distance from center of drill to column is 6 inches. Height overall 28 inches. Use 1/3 H. P. motor. Finished in baked-on corduroy enamel. Shipping weight 40 lbs.

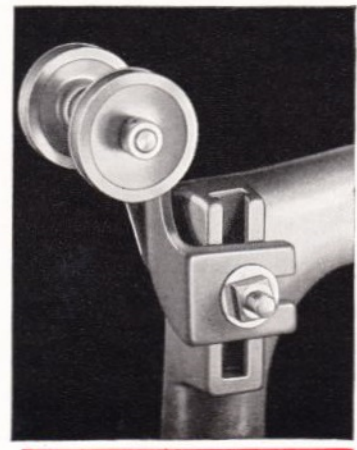


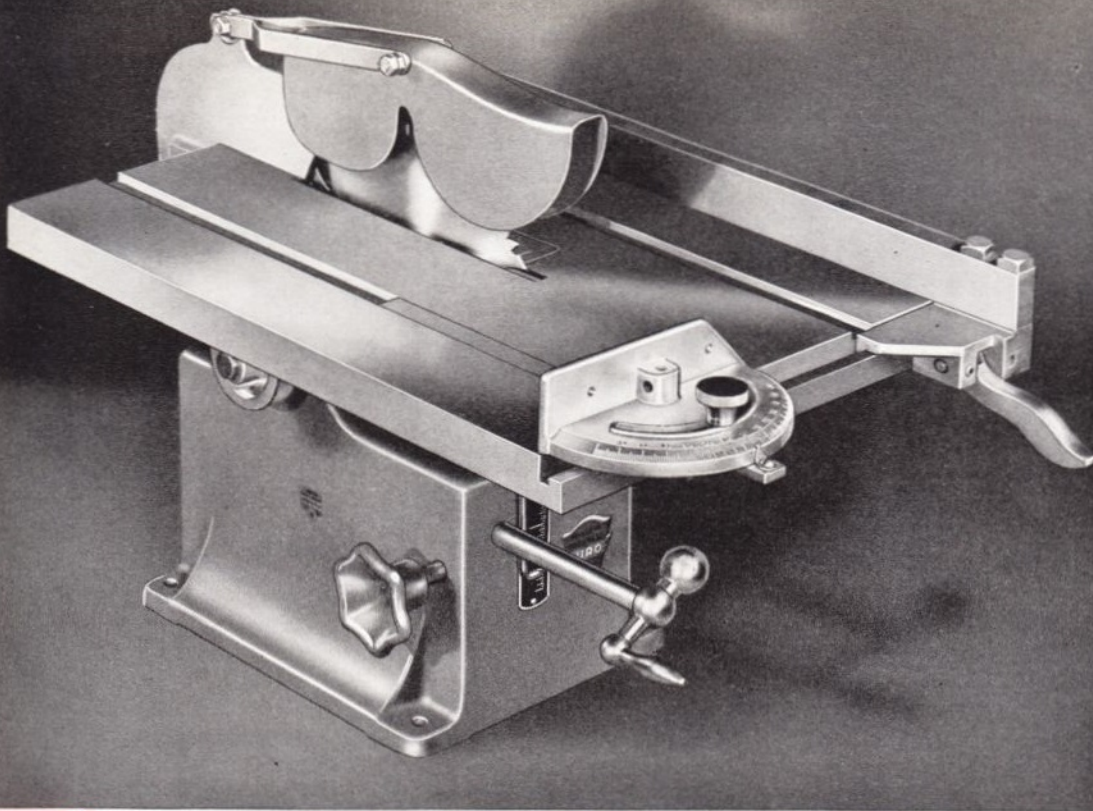
Adjustable To 10-Speeds

The motor bracket on this very efficient Drill Press may be adjusted either horizontally or vertically by simply releasing one nut. The 4-step pulley on the head together with the 4-step pulley on the motor provide 4 direct speeds. By adjusting motor up and down a combination of ten speeds is secured. The motor bracket is controlled by a single unit. The illustration clearly shows the strength and rigidity of the motor mounting. Slots in motor bracket are designed to accommodate various designs of motors.

Idler Pulley Attachment

This pulley attachment is used in place of the motor bracket on any of our bench model drill presses, for driving from a line shaft, in place of using an individual motor. It is also used for driving from jack shaft, permitting a greater number of speeds, both higher and lower, than are possible when driven direct from a motor. A heavy gray iron casting with two 2 1/2-inch V-Pulleys equipped with self-lubricating bronze bearings. No additional charge when furnished in place of motor bracket with original machine.
308008.....\$1.50





No. 3012

\$21⁹⁵

AS ILLUSTRATED

- 14 x 18 Table
- 8" Combination Saw Blade
- Splitter and Safety Kickback

DURO Heavy Duty Bench Saw

Specially designed and moderately priced to meet the requirements of those who need an 8" Table Saw that has the necessary characteristics to perform precision work with a moderate investment.

This saw embodies the same quality materials and the same precision workmanship found in our production saw. The materials are substantial in weight and the mechanism has been carefully designed. Compare it with any saw in this price range,— it is an outstanding value.

The base, well balanced, fully enclosed, is made from selected, seasoned gray iron. Substantial reinforcing cross ribs give it strength and rigidity. The housing which supports the spindle bearings is an integral part of the frame casting. The table bracket, made of high grade gray iron, is supported by two posts that operate in long bearings in the main frame. The table is made of high quality gray iron with deep flanges and heavy ribs to prevent warpage. All tables are carefully seasoned, milled and ground to a smooth accurate finish. A 14"x18" surface with 7½" in front of the blade when set at 2" depth and 9" when set at 1" depth gives ample table space without the necessity of buying extra tables.

Table Tilts to 45 Degrees

The illustration at the right clearly shows the rugged construction of this unit and the attention paid to details by our engineers to make this saw substantial, smooth in operation and free from vibration. The full box frame and the heavy table bracket properly support the trunnions on which the table is mounted. The trunnions are steel set well apart to give maximum support. Front one is graduated and pointer records the degree of tilt.

Note the heavy cast iron section through which the spindle passes and the fact that it is part of the main base. In this are mounted the New Departure Sealed bearings in which the spindle is mounted.

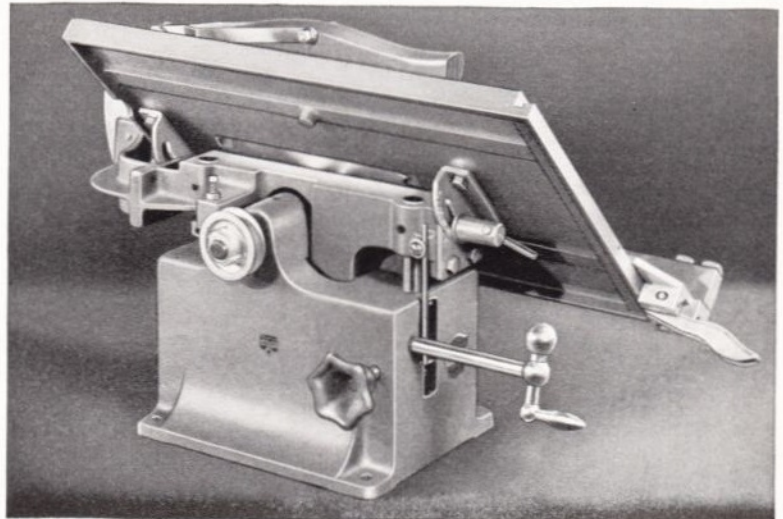
The table is raised and lowered by a gear and rack. The rack is part of the table bracket and the gear is operated by the large ball crank. A compensating spring is provided in order that the table may be raised or lowered with equal ease.

A depth indicating plate and pointer record the depth of cut. The pointer is adjustable. The hand wheel locks the table at the required depth. The splitter is attached to the table bracket and is easily removed. Sawdust chute is also provided.

Two outstanding features of this saw are the improved guard with splitter and the anti-kickback device. The splitter is mounted directly behind the blade and is designed to follow the kerf of the saw. It is made of the proper thickness of material and extending well beyond the back of the table it properly guides the material being cut and at the same time prevents binding.

The Anti-Kickback is the friction type so designed that it will grip any material from the finest up to the capacity of the saw. It is immediately behind the saw blade and only the width of the splitter to the right, consequently it grips the thinnest material in the event it kicks back. These two safety features usually cost many dollars extra as accessories on other saws.

The saw is furnished with a heavy steel Rip Fence. It has a clamp type lever that permits easy removal or movement from place to place across the surface of the saw table. It may be used to equal advantage on either side of the saw blade. The table is slotted on both sides of the blade to accommodate the mitre gauge which is adjustable to 60° in either direction. The saw is finished in corduroy baked enamel and is equipped with a high grade combination 8" saw blade. Shipping Weight 85 lbs.



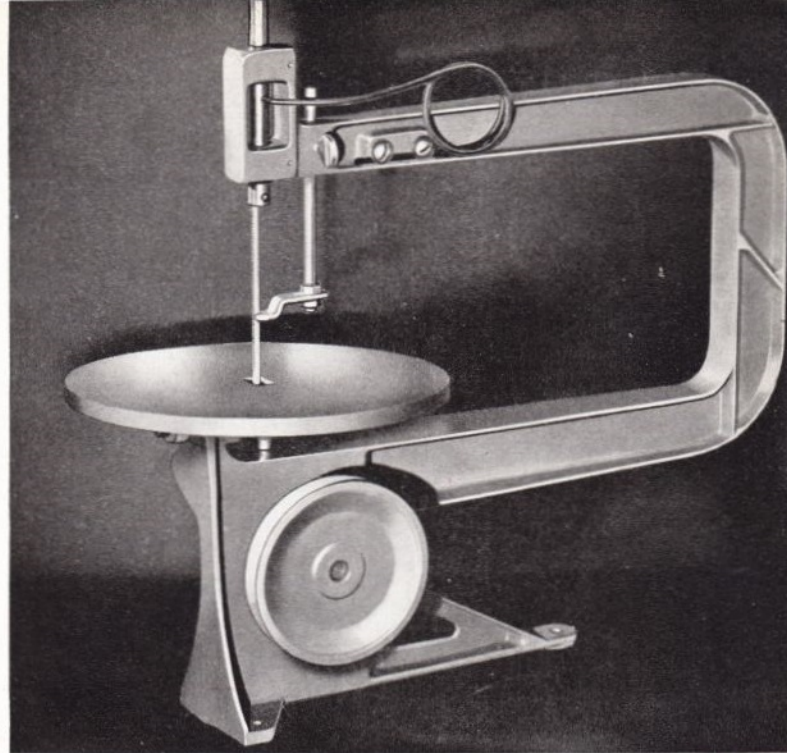
DURO 12-Inch JIG SAW

A Jig Saw that operates with the smoothness and quietness of most large Scroll Saws. Strong, well designed castings. The method of operation, the torsion type spring and meticulous workmanship have produced an outstanding tool.

One piece frame of high quality gray iron is heavily ribbed to insure the rigidity necessary to eliminate vibration. The weight of metal incorporated in this tool and the certain knowledge that it is properly engineered are your assurance of a smooth running and efficient tool. Upper and lower shafts are of ground and polished steel. The heat treated clamps used for holding blades are readily adjusted with hollow head cap screws. A deep, full 12-inch throat handles stock up to $2\frac{3}{8}$ inches thick. Cuts to the center of a 24 inch circle. The mechanism is actuated by an eccentric cam, operating the cross head in conjunction with the torsion type spring. Cam and cross head are heat treated steel.

Note the heavy 8 inch table . . . a thick casting with reinforcing ribs which give additional strength. The diameter is full 8 inches. Trunnion is graduated to 45° and pointer is provided to record angle of tilt. A handy stop permits instant return to 90 degrees. The saw guide is adjustable vertically and horizontally to accommodate varying thicknesses of blades. Takes 5-inch blades of any degree of thickness. The guide foot, which also acts as a hold-down for the work, is carefully heat treated and cadmium plated to prevent rust.

Height of saw is 16 inches overall. A 4-inch pulley is provided. We recommend using a $1\frac{1}{2}$ inch pulley on a 1750 R.P.M. motor to obtain proper speed although tool may be run faster with a minimum of vibration. Finished in attractive corduroy gray enamel, baked on. Shipping weight 20 lbs.



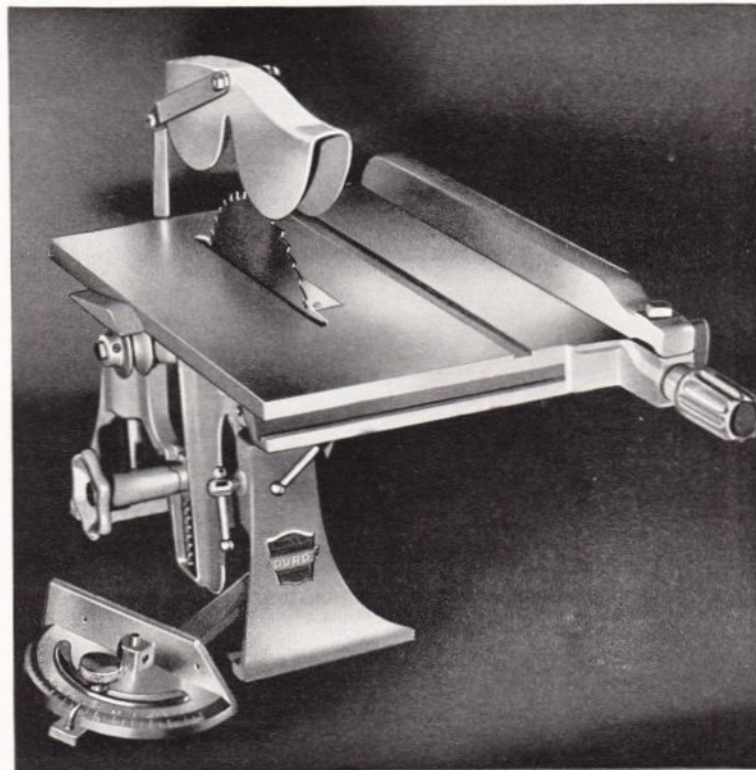
No. 3000

\$550

AS ILLUSTRATED

DURO 7-Inch TABLE SAW

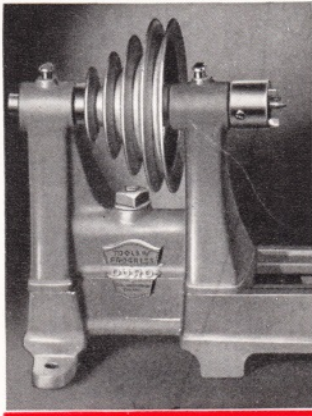
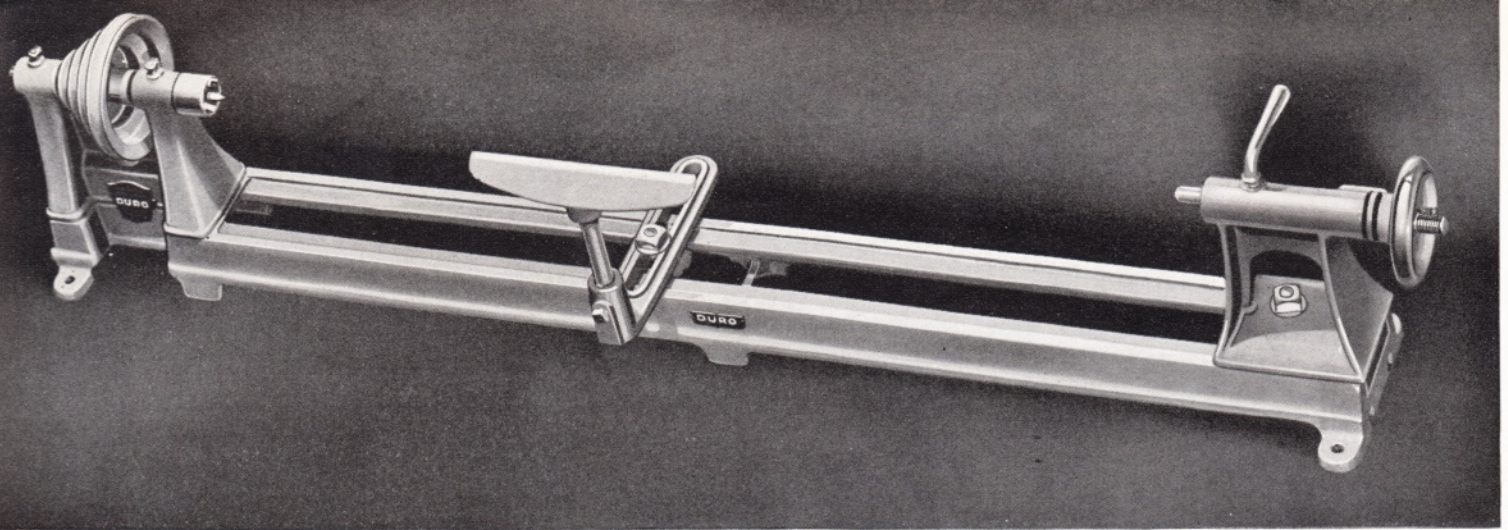
No. 3010 **\$1195** AS ILLUSTRATED



The most outstanding features of this saw are the devices which elevate and tilt the table. The table not the saw blade . . . raises and lowers by the simple turning of the large star hand wheel. Table tilts smoothly and accurately to 45° . Wide trunnions at front and rear travel in saddles which are part of the table bracket. The large and heavy $10'' \times 14''$ table is of high quality gray iron, machine ground with great care. Only a very narrow slot is required for the saw blade as the table tilts on its own axis. A removable throat is provided for dado head or sanding disc.

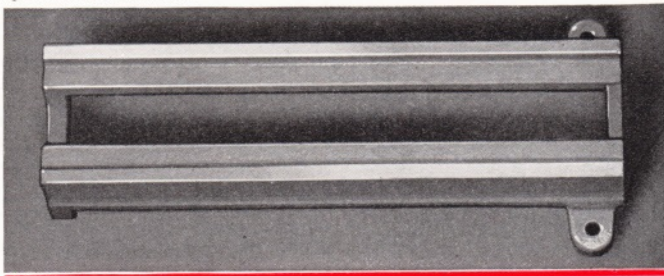
The sturdy rip fence is made of solid steel quickly released by hand knob. Adjustable, it is set to line up accurately with the saw blade. A high quality mitre gauge with accurate graduation up to 60° right or left is provided as standard equipment. The saw guard and splitter meet all safety codes. Guard raises as work is fed into the saw and returns to position as the work passes through. The splitter prevents binding.

Equipped with one combination 7-inch saw blade, hand set and hammered, made of special steel. Spindle is ground and polished stock running in self lubricating bearings which supply rigid support. Depth of cut is $2\frac{1}{4}$ inches. We recommend a $\frac{1}{2}$ H.P. motor if used on heavy work. Equipped with 2-inch pulley on the spindle. A 4-inch pulley should be used on motor running at 1750 R.P.M. to obtain proper saw blade speed of 3500 R.P.M. Finished in gray corduroy enamel—baked on. Accessories are shown on page 26. Shipping weight 37 lbs.



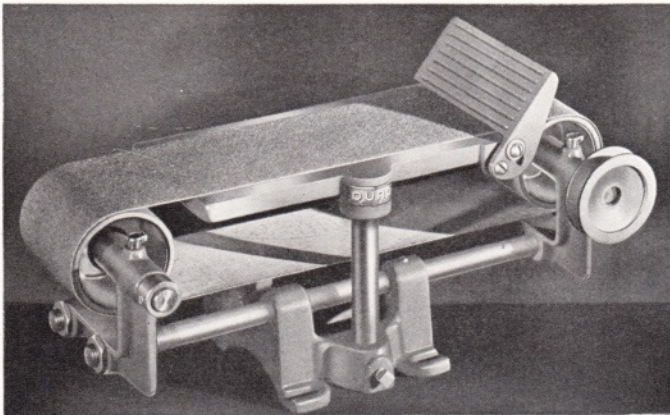
Head Stock

Constructed of heavy castings capable of accommodating 4 bronze bushings. Four-step pulley is suspended between bearings, eliminating any possibility of binding. Ball thrust bearing takes up end thrust. Spur center removable.



12-Inch Bed Extension

Increases lathe to 39 inches between centers. The end of the lathe bed and the end of the extension are both carefully squared and machined to fit perfectly. The tail stock slides freely over the joint. 305008. Each.....\$1.00



DURO 27-Inch LATHE

- CAPACITY—SWINGS 8" STOCK OVER BED—27" BETWEEN CENTERS
- THRUST BALL-BEARING HEAD FOR SMOOTH OPERATION
- FOUR-STEP V-PULLEY GIVES FOUR SPEEDS
- CAREFULLY MACHINED WAYS MEAN MORE ACCURATE WORK

No. 3050

\$595

AS ILLUSTRATED

Any home workshop enthusiast who has tried to do a neat job of turning with the usual low priced lathe will appreciate what has been accomplished in this 27-inch model. Here is rigidity, steadiness and convenience. Because weight provides steadiness, all the weight that reasonably can be accommodated is packed into this tool. The lathe weighs a full 22 lbs. uncrated and all castings are made of the high quality gray iron. Vibration and chatter have been reduced to a minimum.

Full 27 inches between centers with an 8-inch swing over the bed. With the addition of the 12-inch bed extension, the lathe capacity can be increased to 39 inches to give the home shopmen the extra measure of length needed to turn the unusual pieces he has so far been unable to handle.

Note the heavy bed with its smooth perfectly machined ways . . . a ruggedness and trueness that can only be secured with cast iron. Head and tail stock are also heavy and solid, carefully milled and snugly fitted. They slide easily, always maintaining alignment between centers. The sturdy 1/2-inch head stock spindle of ground and polished steel runs in four bearings. A ball thrust bearing takes up the end thrust and provides free, smooth action. There is sufficient clearance around the 4-step pulley to set the motor above, below or behind.

Overall length, 39 inches. Maximum width of base, 5 inches. Maximum height, 8 inches. Spur and cup centers, 6-inch tool rest and wrench included as standard equipment. Use 4-inch pulley No. 305009 and 3/8-inch V velt to drive lathe from 1/4 or 1/3 H. P. motor. Lathe finished in corduroy gray baked enamel. Shipping weight 27 lbs.

DURO Bench Belt Sander

An inexpensive machine, built to our usual high standards, which does away with tedious hand sanding operations. Belt Sanders are strongly recommended by authorities on woodworking as the only practical and proper method of sanding. The Belt Sander, with its uniform cutting speed across the entire cutting face of the belt, gives a smooth, finished surface—whereas in disc sanding with the peripheral speed varying across the entire width of the disc, a series of circles or grooves are visible on the finished work.

Built of heavy gray iron, carefully machined, assuring proper alignment of the two rollers. Each roller is rubber tired and crowned and supported on gray iron arms with long bearing surfaces. The arms are supported by two heavy steel rods with adjusting nuts for truing up rollers and getting proper tension on belt.

Heavy gray iron, 4 x 8 inch machine ground table. Provided with a fence that is adjustable to 45°, and can be removed when sanding long pieces. Equipped with 3 x 30-inch medium grain sanding belt. See page 26 for other grain belts. Length overall 13 1/2 inches. Complete with 2-inch V-pulley. Run at 1200 R. P. M. Durable baked corduroy gray enamel finish. Shipping weight 12 lbs.

3060.....\$5.25

DURO

**PORTABLE BELT SANDER
for Use with Flexible Shaft**

Belt Sanding is the most practical, economical and time-saving way of sanding flat surfaces. Table tops, cabinets, etc., can be sanded as efficiently as it is done in the factory. No ridges, corrugations or rings are produced.

This Portable Sander has proven it will do any sanding job as satisfactorily as portable sanders that usually sell for more than \$85.00.

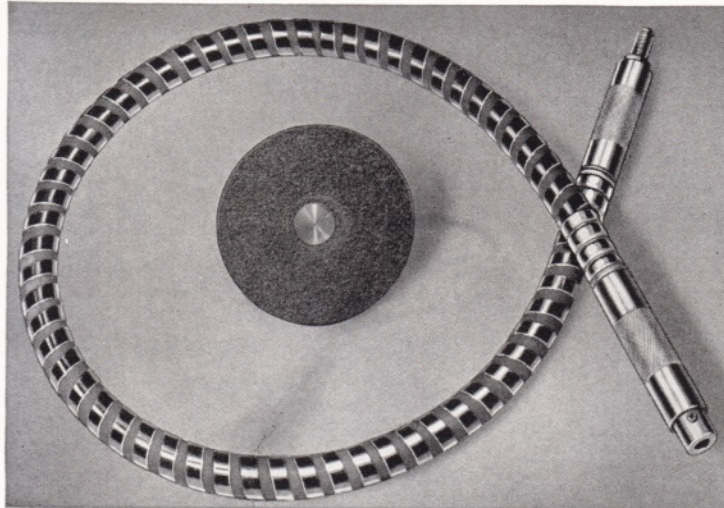
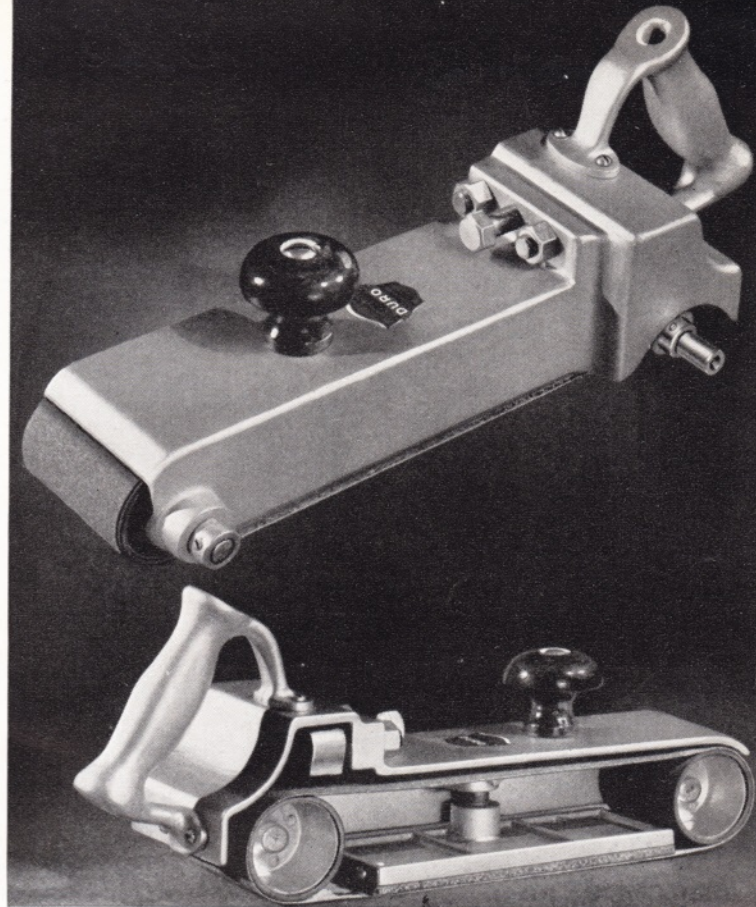
It will accomplish in a few minutes, and without any great effort, what would normally take hours of hard hand labor. The main frame and pistol grip handle are made of high grade aluminum, making the tool light in weight and very easy to handle. The design of the Pistol Grip allows the wrist and arm to remain in a natural position at all times. Used with any standard flexible shaft.

The rubber covered crown pulleys run on self-lubricating bronze bearings. There can be no oil dripping to mar your finished work.

Conveniently located adjustments for setting tension and tracking of sanding belt are located in front of the pistol grip handle.

The length overall is 17 inches. A large enough machine to do the greater portion of sanding done in any woodworking shop. It should run at motor speed of 1750 R.P.M. Shipping weight 10½ lbs. For extra belts see Page 26.

3061.....\$10.85



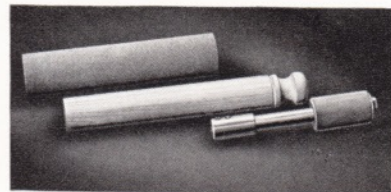
Heavy-Duty Flexible Shaft

Designed for heavier duty work in shops, garages, machine shops, woodworking and paint shops. Used for drilling, polishing, grinding, buffing, carbon removing, etc.

Fitted with new style outer casing, a combination of steel and tough fabric, which is extremely flexible and very durable. The heavy 3/8-inch core is made from specially wound music wire and rides on two rows of enclosed ball bearings at both ends of the shaft. The inner walls of the casing have a special lining which resists friction and wear and gives longer life to the core.

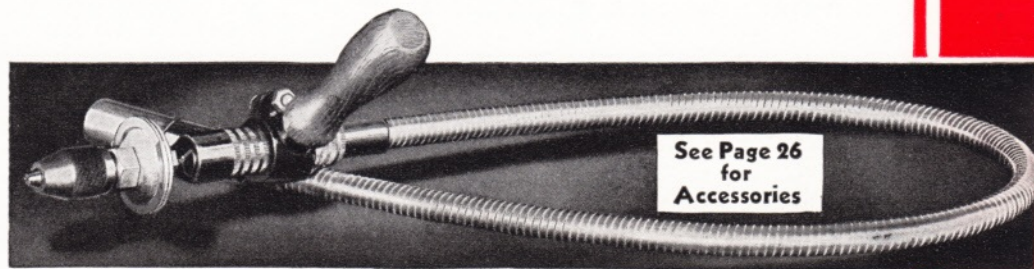
Heavy 1/2-inch, 24-thread spindle to fit both 1/4 and 1/2-inch chucks, as well as other standard accessories. The overall length is 5 feet. Shipping weight 12 lbs.

- 3073.....\$12.95
- 3264—6 x 1/2" flexible sanding disc, threaded to fit above shaft.....\$1.50
- 3263—Extra sandpaper for above disc. Choice of fine medium or coarse, each.....\$0.10



Spindle Sander

For sanding carvings, mouldings and all irregular shapes. Allow sanding roll to overhang the end of rubber drum, run at motor speed and press work against paper. Included with spindle is rubber sleeve, wood roller and one sheet of garnet paper. 3062.....\$1.95
3260—Special garnet paper for above, size 9 x 12 inches—fine, medium and coarse. State grade wanted.
Per dozen sheets.....\$0.60



See Page 26
for
Accessories

DURO 48-Inch Flexible Shaft

Quality materials, careful design and workmanship make this a very fine tool for general utility work. Handy around the shop for grinding, sanding, polishing, etc. Two rows of ball bearings at each end of shaft. All engaging parts heat-treated. Specially wound, select music wire inner core, 1/4" diameter, guaranteed not to come un-wound if run in proper direction. Heavy cadmium-plated, rust-proof flexible outer casing. Length overall 52 inches. Equipped with inner and outer motor coupling, chuck adapter, washers, 3-jaw 1/4 inch chuck and auxiliary handle. Shipping weight 5 pounds.

- 3070—Complete as illustrated.....\$5.45
- 307033—Flexible Shaft Extension. Length 43 inches. For increasing length of flexible shaft to 95 inches overall. Shipping weight, 3 pounds.....\$3.00

DURO Quality SAWS

Combination Rip and Cross Cut

These Quality Saw blades are not built to meet a price but to give a maximum cutting efficiency. Made from fine quality crucible alloy steel, with a sharp cutting edge, correctly tempered, hand filed, hammered and set for proper balance and true cutting. Will not bind or buckle.

- 3456A—18 gauge. Diameter 6-inches with 1/2-inch bore. Each.....\$1.25
- 3457A—18 gauge. Diameter 7-inches with 1/2-inch bore. Each.....\$1.45
- 3458A—18 gauge. Diameter 8-inches with 3/8-inch bore. Each.....\$1.65
- 3458X—Same dimensions and teeth as 3458C, but not hollow ground. Each.....\$1.65

Circular Cross Cut Saw

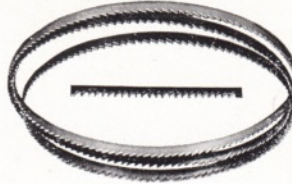
Made especially for cross cutting from the same fine quality steel as our Combination Saws listed above.

- 3454B—18-inch gauge. Diameter 4 inches with 1/2-inch size bore. Each.....\$0.50
- 3456B—18 gauge. Diameter 6-inches with 1/2-inch size bore. Each.....\$1.25
- 3457B—18 gauge. Diameter 7-inches with 1/2-inch size bore. Each.....\$1.45
- 3458B—18 gauge. Diameter 8-inches with 3/8-inch size bore. Each.....\$1.65

Hollow Ground Miter Saw

A hollow ground jointer blade used for jointing finished lumber. Does not tear. Leaves a very smooth finish. Made from the finest crucible alloy steel—correctly tempered and balanced.

- 3456C—16-19 gauge. Diameter 6-inches with 1/2-inch size bore. Each.....\$3.20
- 3457C—15-18 gauge. Diameter 7-inches with 1/2-inch size bore. Each.....\$3.60
- 3458C—15-18 gauge. Diameter 8-inches with 3/8-inch size bore. Each.....\$4.25



Band Saw Blades

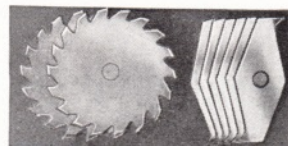
Only high grade alloy steel has been selected for our Band Saw Blades. They are correctly tempered and carefully set for fast, smooth cutting in all kinds of wood. Strong, flexible—give longer life. Use our Quality Saw Blades to assure satisfaction. Widths 1/8, 3/16, 1/4 and 3/8 in. State width wanted.

- 3442—60-inch blade for 9-inch Saws. Each.....\$0.85
- 3442—60-inch blade, 3/8-inch width. Each.....\$0.95
- 3444—78-inch blade for 12-inch Saws. Each.....\$0.95
- 3444—78-inch blade, 3/8-inch width. Each.....\$1.00
- For cutting soft metals such as aluminum, copper, etc.
- 3443—60-inch blade, 3/8 inch in width. Each.....\$1.10
- 3445—78-inch blade, 3/8 inch in width. Each.....\$1.15

BLADES FOR 16-INCH BAND SAW

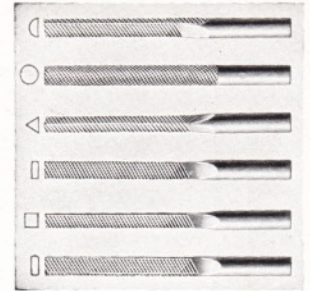
- 3446—1/2"x111". Each.....\$1.55
- 3446—3/4"x111". Each.....1.55
- 3446—5/8"x111". Each.....1.60
- 3446—1/2"x111". Each.....1.75
- 3446—3/4"x111". Each.....1.80
- 3447—3/4"x111" Metal Cutting. Each.....\$1.70

Dado Heads



High quality tempered steel, hand set and filed. Set consists of two outside blades and six inside cutters.

- 3434A—Complete set, 4" diameter; 1/2" bore for 7" saw.....\$2.50
- 343401—Outside blades only. Each.....\$0.75
- 343402—Inside cutters only. Each.....\$0.25
- 3435A—Complete set, 5" diameter; 5/8" bore for 8" saws. Each.....\$3.75
- 343501—Outside blades only. Each.....\$1.00
- 343502—Inside cutters only. Each.....\$0.35



Scroll Saw Files

Crucible steel, properly tempered. Will fit our 16" or 24" scroll saws. No. 0 for metal, No. 00 for wood. State cut wanted.

0-Cuts	00-Cuts	Style File	Each
327001	327101	Round	\$0.50
327002	327102	Half Round	.50
327003	327103	Pillar	.50
327004	327104	Square	.50
327005	327105	3 Square	.50
327006	327106	Crochet	.50

3270—Complete set of six, 0 cut...\$2.95
3271—Complete set of six, 00 cut...2.95

Jig Saw Blades

Finest quality Jig Saw Blades—correctly tempered and carefully set. All blades listed below are 5-inches in length.

PIN END BLADES

- 3472A—.010-in. thick, .040-in. wide. 18 teeth to the inch. Package of 12 \$0.45
- 3474A—.020-in. thick, .125-in. wide. 10 teeth to the inch. Package of 12 \$0.40
- 3474B—.020-in. thick, .125-in. wide. 15 teeth to the inch. Package of 12 \$0.40

PLAIN END BLADES

- 3481A—.007-in. thick, .028-in. wide. 18 teeth to the inch. Package of 6 \$0.18
- 3482B—.010-in. thick, .040-in. wide. 18 teeth to the inch. Package of 6 \$0.18
- 3484A—.020-in. thick, .125-in. wide. 10 teeth to the inch. Package of 6 \$0.20
- 3484B—.020-in. thick, .125-in. wide. 15 teeth to the inch. Package of 6 \$0.20

SABER BLADES

- 3490A—Package of 3.....\$0.25

Sanding Belts

An endless Sanding Belt made in two sizes; the 3 1/2 inch for Table and Portable Sander and the 6 inch for production Sander. Made with a tough fabric back to give long, satisfactory service. Keep an assortment on hand; you will use them often in your workshop. Three grits stocked—1/2, 1-0, 2-0. Other grits on request. State grit wanted.

Number	Width in Inches	Length in Inches	Price Each
3258	3	30	\$0.40
3259	6	44 1/2	.90

Emery Sanding Belts

For sanding aluminum, copper, brass and other castings and soft metals. Fine, medium and coarse grits. State grit wanted.

- 3261—3" belts for portable or 3" bench grinder. Each.....\$0.45
- 3262—6" belts for 6" sander. Each.....\$1.00

Drum Sandpaper

Just what you need for smoothing rounded edges and surfaces. This thick sanding band fits over the rubber drum that is pictured below, or any other of same size. For use with flexible shaft, polishing head, etc. State whether Coarse, Medium or Fine Grit is wanted.

- 325201—2-inches in diameter. Each.....\$0.12

Sanding Drum

An accurately designed expanding rubber sanding drum. Can be easily and quickly attached to a flexible shaft, polishing head, etc. Makes a very useful and convenient Sander for any workshop. The diameter is 2 inches, and the width is 3 inches. Use 325201 Sanding paper listed above.

- 3251—Complete.....\$0.85

Buffing Cloth

These fine grade cloth buffing wheels consist of eighteen layers of bleached muslin securely sewed together. All sizes have 1/2-inch arbor hole.

- 3204—4 in. dia. Ea.....\$0.15
- 3206—6 in. dia. Ea.....\$0.25
- 3208—8 in. dia. Ea.....\$0.45
- 3210—10 in. dia. Ea.....\$0.55
- 3212—12 in. dia. Ea.....\$0.75

Scratch Brushes

A well made, firmly set wire scratch wheel. All sizes have 1/2-inch arbor hole.

- 3224C—4-inches in diameter. Coarse Type. Each.....\$0.35
- 3224F—4-inches in diameter. Fine Type. Each.....\$0.45
- 3226C—6 inches in diameter. Coarse type. Each.....\$0.45
- 3226F—6 inches in diameter. Fine Type. Each.....\$0.65
- 3228C—8 inches in diameter. Coarse Type. Each.....\$0.65
- 3228F—8 inches in diameter. Fine Type. Each.....\$0.85

Grinding Wheels

Coarse grit for general grinding work—Fine grit for knives, etc. 1/2" arbor hole.

- 3214C—4-inches in diam. 1/2-in. face. Coarse Grit.....\$0.35
- 3214F—4-inches in diam. 1/2-in. face. Fine Grit.....\$0.35
- 3216C—6-inches in diam. 1/2-in. face. Coarse Grit.....\$1.00
- 3216F—6-inches in diam. 1/2-in. face. Fine Grit.....\$1.00
- 3236C—6 in. diam. 3/4 in. face. 3/4 in. arbor hole. Coarse Grit.....\$1.25
- 3236F—6 in. diam. 3/4 in. face; 3/4 in. arbor hole. Fine Grit.....\$1.25

Sanding Disc Sheets

These sandpaper discs add a finishing touch to a sanding job—giving it a smoother, more flawless finish. Each disc is 6 inches in diameter, for use with metal sanding disc shown below. Set of six consists of two each of coarse, medium and fine grit.

- 3257—Package of Six.....\$0.30

Sheepskin Buffer

You'll find it an excellent polishing buffer for automobile bodies, or most any metal surface. Sheepskin jacket slips over sanding disc and rubber pad shown below. Fastens securely.

- 3256—Each.....\$0.80

Sanding Discs

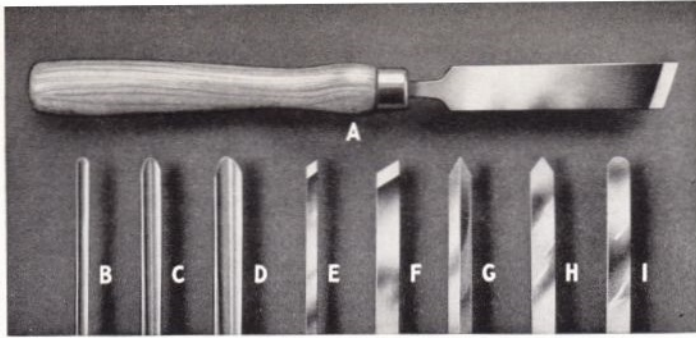
A carefully machined and well balanced sanding disc. Made from quality die-cast metal. 6-inches in diameter. State whether 1/2-inch threaded, or 1/2-inch or 3/8-inch unthreaded bore is wanted.

- 3254—Each.....\$0.60

Rubber Discs

A tough gray sponge rubber pad for use between sanding disc and sheepskin buffer or sanding disc shown above. 6 inches in diameter and 3/8 inch thick.

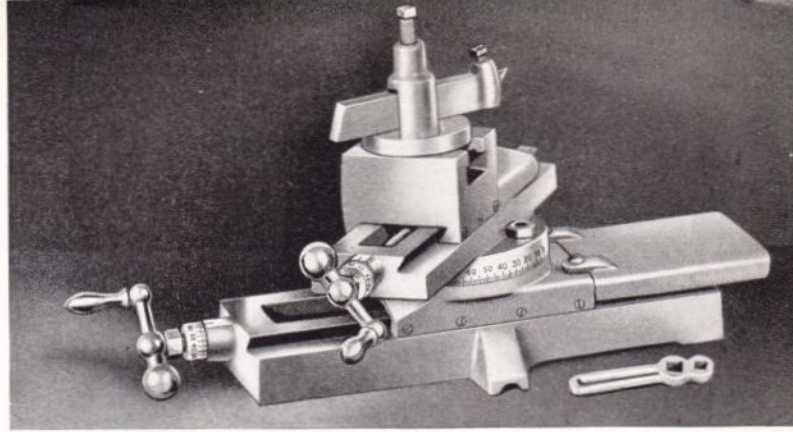
- 3255—Each.....\$0.25



DURO Wood Turning Chisels

These chisels are made from the very best quality crucible steel—carefully hardened and tempered to produce a keen cutting edge of long life. Blades are 4 inches in length, fully polished and sharpened ready for use. Fitted with thoroughly seasoned, varnished hardwood handles. Handles are 8 inches long, the most popular length handle for wood turning. Be sure to state style blade wanted.

320001—(E) $\frac{1}{4}$ " x 4" Skew.	Each	.....	\$0.65
320002—(F) $\frac{1}{4}$ " x 4" Skew.	Each	.....	.75
320003—(C) $\frac{1}{4}$ " x 4" Gouge.	Each	.....	1.00
320004—(D) $\frac{1}{4}$ " x 4" Parting Chisel.	Each	.....	.75
320005—(G) $\frac{1}{4}$ " x 4" Gouge.	Each	.....	.65
320006—(B) $\frac{1}{4}$ " x 4" Gouge.	Each	.....	.65
320007—(I) $\frac{1}{4}$ " Round Nose.	Each	.....	1.00
320008—(H) $\frac{1}{4}$ " Spear Point.	Each	.....	.75
320009—(A) $\frac{1}{4}$ " Regular Skew.	Each	.....	3.90
3200-A—Set of 5 chisels packed in canvas roll, consisting of C, D, E, F, G.	.....	.....	2.90
A good quality, low priced chisel made from crucible steel, hardened and tempered. Blades are satin finish, correctly sharpened, and fitted with 8-inch seasoned hardwood handles.			
320101—(E) $\frac{1}{4}$ " x 4" Skew.	Each	.....	\$0.43
320102—(F) $\frac{1}{4}$ " x 4" Skew.	Each	.....	.52
320103—(C) $\frac{1}{4}$ " x 4" Gouge.	Each	.....	.75
320104—(D) $\frac{1}{4}$ " x 4" Parting Chisel.	Each	.....	.52
320105—(G) $\frac{1}{4}$ " x 4" Gouge.	Each	.....	.52
320106—(B) $\frac{1}{4}$ " x 4" Parting Chisel.	Each	.....	.52
3201A—Set of the above 5 chisels in canvas roll.	.....	.....	2.90



DURO-Compound Rest

Built to give micrometer accuracy in finished work. A turn of either handle is equivalent to 0/10 in. travel. Easy to read micrometer gauges at handles. "V" ways milled in base to match ways on lathe bed. Longitudinal feed is $6\frac{1}{2}$ inches; transverse feed 7 inches. All ways are machined to 60° and gibbed for take-up. Swivel base graduated in degrees. A quality tool—built to rigid specifications. Tool holder and wrench included. Shipping weight 25 pounds.

305357—Compound Slide Rest for No. 3053 Lathe.	.....	\$16.95
305657—Compound Slide Rest for No. 3056 Lathe.	.....	\$16.95



Back Rests

Used to back up wood that has tendency to bend when being cut into by chisel. Steadies the work and makes finer work on very slender pieces possible. Rollers are adjusted by star hand wheels as work progresses. Fits in regular tool rest holder.

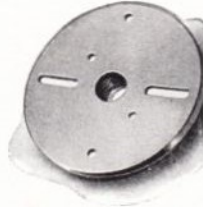
305344—Fit Lathe No. 3053.	Each	.....	\$3.50
305644—Fit Lathe No. 3056.	Each	.....	\$3.50



Steady Rests

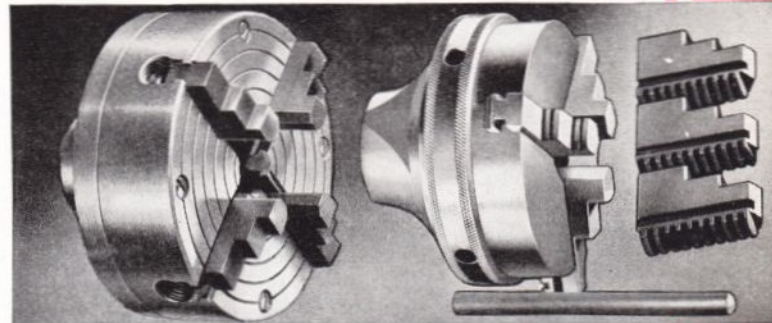
A most necessary accessory to the metalworker turning long pieces. Properly set it will prevent "whip" and enable the operator to make a true turning of long pieces. Made of good quality gray iron. Adjustable to take work up to 2 1/2 inches in diameter. Sturdily and well constructed.

305323—Fit Lathe No. 3053.	Each	.....	\$2.25
305642—Fit Lathe No. 3056.	Each	.....	\$2.25



Face Plates

Heavy gray iron, carefully machined. 305020—3 1/2 in., 1/2 in. bore for 3050 Lathe. Each \$0.70 305326—3 1/2 in., 3/8 in. bore —16 thread for 3053 Lathe. Each\$1.25 305641—3 1/2 in., 1 in. bore —16 thread for 3056 Lathe. Each\$1.25 305311—6 in., 3/8 in. threaded or unthreaded— for 3053 Lathe. Each \$1.50 305618—6 in., 1 in. bore— cross threaded for 3056 Lathe. Each\$1.50



4 Jaw Chuck

Independent 4 Jaw Chucks of fine workmanship and material. Used with our Lathes for metal cutting or any other work where it is necessary to grip irregular pieces. Fitted with four hardened steel reversible jaws that operate independently. Wrench and back plate included. 305358—4 Jaw Chuck; 4 inch size for No. 3053 Lathe. Each\$6.50 305658—4 Jaw Chuck; 4 inch size for No. 3056 Lathe. Each\$6.50 305663—4 Jaw Chuck; 6 inch size for No. 3056 Lathe. Each\$11.50

Universal Chuck

A precision tool for the master mechanic. Of excellent quality—finish—and workmanship. Has a 3 inch capacity. Fitted with 3 hardened steel jaws that work simultaneously and hold all work true and firm. An extra set of jaws and key included. 305059—3 Jaw Chuck. 3 inch size for No. 3056 Lathe or any lathe with 1-inch spindle; 16 threads to the inch. Each\$16.50



Center for Jacobs Chuck

Machined, ground and polished for accuracy. For adapting 1/2 inch Jacobs Chuck, as supplied on our drill press, to lathe work. Chuck end is 1/2 inch—16 threads. 3148A—No. 2 Morse Taper. 3148B—No. 1 Morse Taper. Each\$0.80



Chuck Center

1/2-inch chuck equipped with Morse Taper for use in lathes having taper specified. Used in tailstock of lathes for boring. Spindle is 1/2 inch—24 threads. 3146C—1/2-inch Chuck with No. 2 Morse Taper. Each\$1.35 3146D—1/2-inch Chuck with No. 1 Morse Taper. Each\$1.35



Screw Center

An accessory indispensable when turning very small pieces. Use in any lathe having specified Morse tapers. Carefully machined and accurately ground. Screw is removable and may be replaced at small additional cost. 305327—No. 1 Morse Taper. Each\$0.75 305660—No. 2 Morse Taper. Each\$0.75



60° Center

60 degree center for use with other metal cutting attachments. Accurately machined and ground to fit any lathe with Morse tapers. 305325—60 degree center with No. 1 Morse Taper. Each\$0.75 305656—60 degree center with No. 2 Morse Taper. Each\$0.75



Cup Center

Accurately machined and ground; with removable points that can be easily replaced if necessary. An essential accessory for woodturning. 305317—Cup Center with No. 1 Morse Taper. Each\$0.75 305626—Cup Center with No. 2 Morse Taper. Each\$0.75



Spur Center

Accurately ground to fit Morse Taper. Heat treated steel. Machined spurs and removable points. Fits any lathe with Morse Tapers. 305307—Spur Center No. 1 Morse Taper. Each\$0.75 305639—Spur Center with No. 2 Morse Taper. Each\$0.75



Tool Rests

Heavy gray iron with carefully machined shanks to fit tool rest holders as specified for lathes. Larger tool rests are very convenient for turning long pieces such as table and chair legs and lamps. 3053 Tool Rests have 3/4-inch shanks; 3056 have 1-inch shanks and may be used in holders having specified bore. 305313—12-inch Tool Rests for 3053 Lathe. Each\$0.95 305324—18-inch Tool Rests for 3053 Lathe. Each1.50 305605—4-inch Tool Rests for 3056 Lathe. Each70 305604—12-inch Tool Rests for 3056 Lathe. Each1.00 305606—24-inch Tool Rests for 3056 Lathe. Each1.95



Holders for Tool Rests

Heavy gray iron, machined. 305312—Tool Rest Holder as illustrated for 3053 Lathe. Each\$0.75 305607—Tool Rest Holder, complete with hand wheel and bolt for 3056 Lathe. Each\$1.65



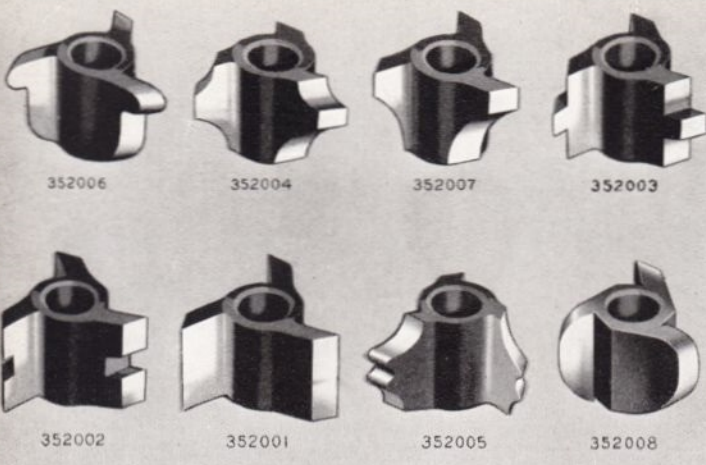
Lathe Dogs

Another quality metal turning accessory. Drop-forged from high grade steel—correctly shaped and tempered for great strength and toughness. Best tail. Natural forged finish. 305661—3/4-inch. . . \$0.60

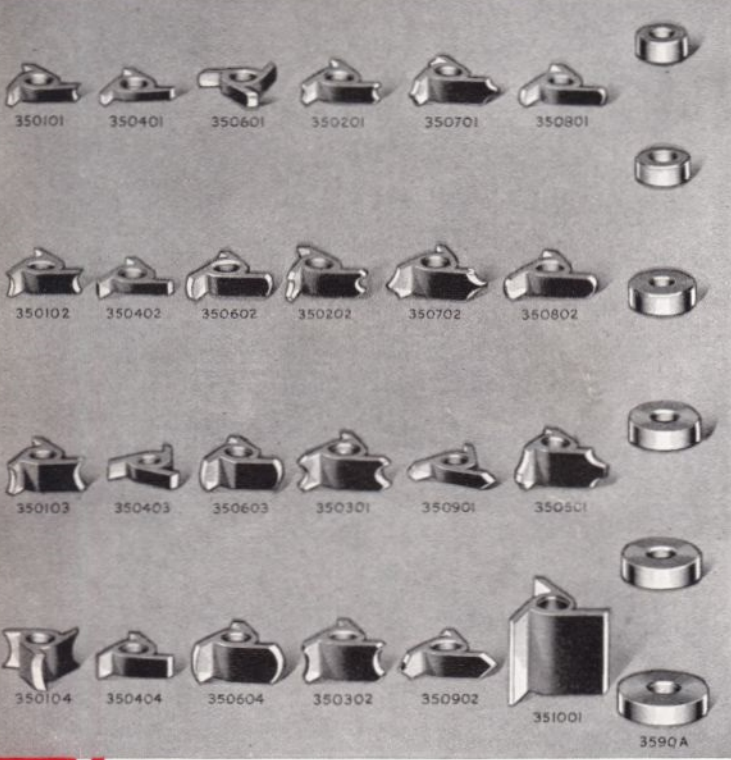


High Speed Steel Metal Cutting Tool Bits

High speed steel, correctly heat treated to hold a lasting cutting edge. Designed to fit tool holder of compound rests listed above. Each bit is sharpened, ready for use. The complete set consists of round nose turning tool; right and left hand turning tool; right and left hand facing tool and threading tool. 305662—Per Set.\$0.95



Chrome Vanadium Steel Cutters



DURO 1/2-Inch Shaper Cutters

Shaping provides an excellent opportunity to design furniture and to add to its value. These Shaping Cutters are made in our own factory. Produced from a special alloy steel that is well known for its deep hardening quality and ability to withstand many shocks and resharpenings. They are sharpened by grinding across the face of the cutting edge on a flat wheel, and consequently, do not lose their original diameter. All Cutters carefully machined and hardened. The maximum diameter is 1 3/4-inches and maximum width 1-inch. For use on any 1/2-inch diameter spindle. With adaptors they may be used on the Production Shaper, Floor and Bench Model Drill Presses, and Carver.

Price each \$1.00
 3591A—1/2-inch Bore Depth Collars—Set of six50

Split Shaper Collars



Specially designed for those who prefer to grind their own shaper knives. Two bevelled edge shaper knives are clamped between collars. Knives are made of high speed steel, hardened and tempered ready for grinding to design required. Each knife is 2 1/4" long by 3/8" thick. Order by numbers shown below.
 356001 Shaper Collars 1 1/4" diameter—per pair \$1.25
 356002 Shaper knife blanks—1/2" wide—each50
 356004 Shaper knife blanks—1" wide—each75

DURO 5/16-Inch Shaper Cutters

Made from chrome vanadium steel, correctly tempered so that the edges stay sharp much longer than ordinary cutters. Ground true and accurate and matched to fit each other. Tough enough to withstand many resharpenings. They can be combined to make hundreds of different styles of cuts. For use with any 5/16-inch diameter spindle. With adaptors they may be used on the Duro Production Shaper; Floor and Bench Model Drill Presses, and Carver.

Number	Width	Diameter	Price	Number	Width	Diameter	Price
350101	.177	.950	\$0 .50	350201	.221	.994	\$0 .50
350102	.264	.950	.50	350202	.442	1 .03	.50
350103	.354	.950	.50	350301	.303	1 .09	.50
350104	.442	.950	.50	350302	.388	1 .16	.50
350401	.125	.950	.50	350701	.282	1 .18	.50
350402	.156	.950	.50	350702	.344	1 .24	.50
350403	.187	.950	.50	350901	.177	1 .12	.50
350404	.250	.950	.50	350902	.282	1 .12	.50
350601	.177	.102	.50	350801	.194	1 .13	.50
350602	.264	.106	.50	350802	.260	1 .20	.50
350603	.354	.109	.50	350501	.442	1 .25	.50
350604	.442	.113	.50	351001	1 .00	1 .25	.65

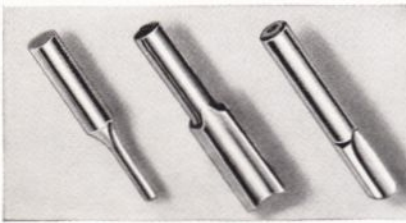
DURO SET OF 24 SHAPER BLADES

Set of 24 cutters listed above with 6 assorted depth washers.
 3500B—Packed in a neat indexed wood box. Per Set..... \$10.85
 3590A—5/16-inch Bore Depth Collars. Set of six..... .50

How To Use for Combination Cutting



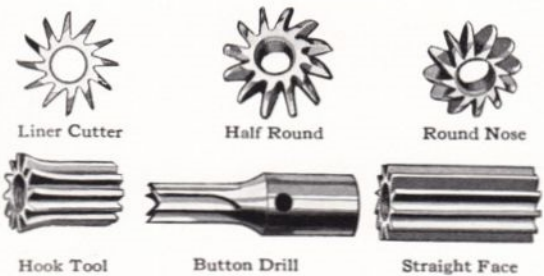
The picture at left illustrates how several cutters may be used to make combination cuts. These are all matched and may be used in conjunction with each other to make hundreds of different designs of fancy mouldings.



Routing Cutters

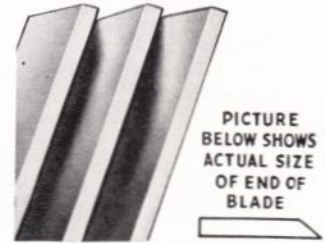
Straight routing cutters and round nose cove cutters made of high speed steel. Shanks 1/8" diameter.

Number	Size	Price
353006	Single Lip 1/8-in.	\$0.70
353001	Single Lip 1/8-in.	.70
353007	Single Lip 3/16-in.	.70
353002	Single Lip 1/4-in.	.70
353003	Double Lip 3/8-in.	.75
353004	Double Lip 1/2-in.	.85
353005	Double Lip 3/4-in.	1.00
354001	Cove 1/8-in.	1.10
354003	Cove 3/16-in.	1.25
354004	Cove 1/4-in.	1.50



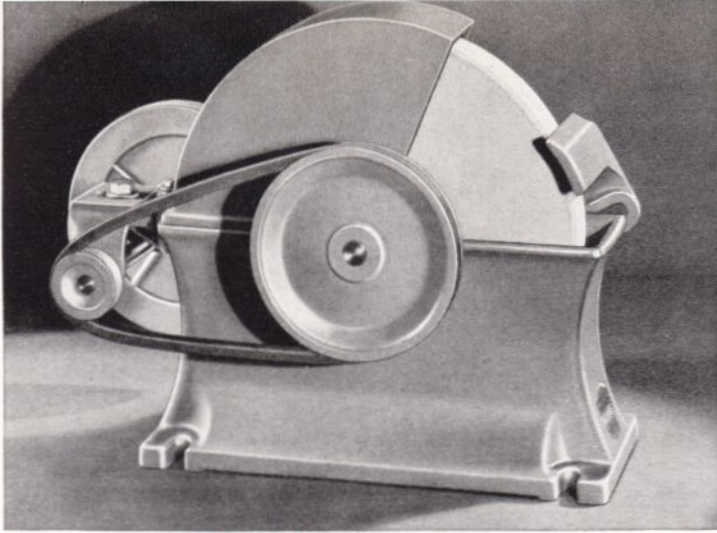
DURO Carving Cutters

Highest quality heat treated tool steel.
 355001—Straight Face..... \$4.30
 355002—Round Nose..... 3.45
 355003—Liner Cutter..... 2.70
 355004—Hook Tool..... 4.30
 355005—Half Round..... 3.75
 355006—Button Drill..... 4.30
 Any design or style can be furnished on request. Write for prices, stating size and style required.



Jointer Cutters

Made from the finest quality high speed tool steel. Cut faster and hold their edge longer than ordinary carbon steel knives. Correctly tempered to hold a keen cutting edge. Ground and sharpened ready for use. Sold only in sets.
 303016—4-in. cutter to fit No. 3030 Jointer. Per Set..... \$1.95
 303516—6-in. cutters to fit No. 3035 Jointer. Per Set..... \$2.95

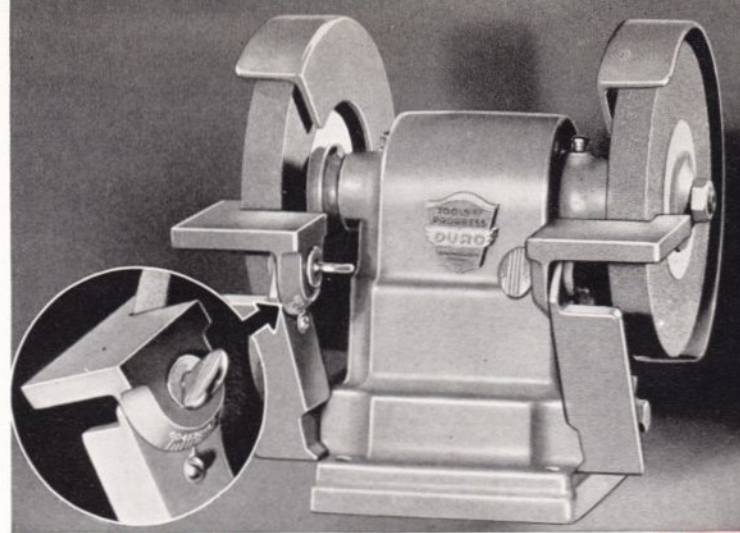


DURO Water Grinder

A heavy, carefully designed and well built bench type Water Grinder for shop or home workshop use. The only ideal means of putting a keen edge on cutter blades, bits, chisels, knives and other edged tools. The wheel running in water at a slow speed eliminates heating or burning of tools.

Modern in design with heavy leakproof gray iron case. Note the guard that keeps water from splashing. Adjustable tool rest permits holding tools at the right angle for proper grinding. Excellent quality genuine Ohio grindstone, 10 inches in diameter with 1 1/2-inch face. The heavy spindle is mounted on self-lubricating bronze bearings. Speed, 125 R.P.M. Finished in corduroy, gray baked enamel. Furnished complete with countershaft pulleys and belt. Shipping weight, 40 lbs.

3043.....\$9.50

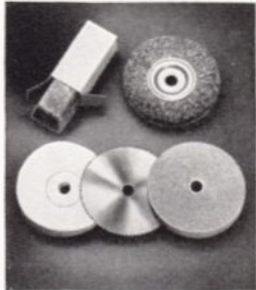


DURO Bench Grinder

Modern design, safety construction, heavy gray iron castings to assure rigidity, larger wheels and heavier bearings and spindle make this Bench Grinder an outstanding value in the low price field. The fully enclosed base acts as belt and pulley guard. Can be driven from back or below bench. Note the large guards to give added safety and the adjustable tool rests with graduated scales to give correct angle for proper grinding.

Heavy 3/4" steel shaft mounted on self-lubricating bronze bearings, fitted with reservoirs for renewing lubrication. Two 3/4" by 6" diamond dressed wheels, one fine and one coarse grain. Can also be used with scratch wheels and buffing cloths. A valuable tool for garage, wood-working shop, etc. Finished in corduroy, gray baked enamel. Shipping weight, 22 pounds.

3041—Complete as illustrated.....\$7.45

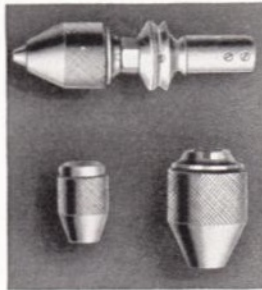


Accessory Kit

Use with Polishing Heads at right, as well as motor arbor or flexible shaft. Outfit consists of 4-in. saw with 1/2-in. bore; 4-in. grinding wheel; 4-in. scratch wheel; 4-in. cloth buffer and cake of polishing compound.

3130E—Complete.....\$1.25

3130D—8 x 8 in. stamped steel table with mitre gauge. Fits on 3130B polishing head. Each.....\$0.60



Chucks

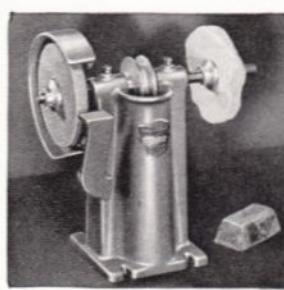
High grade 3-jaw self-tightening chucks with machined, hardened jaws. For motor arbors or flexible shafts.

3140A—1/4-in. chuck.....\$0.30
3146A—1/2-in. chuck......65

Arbors

Designed to fit any 1/2-inch shaft; arbor takes wheels with 1/2-inch bore. Equipped with single groove pulley and chuck.

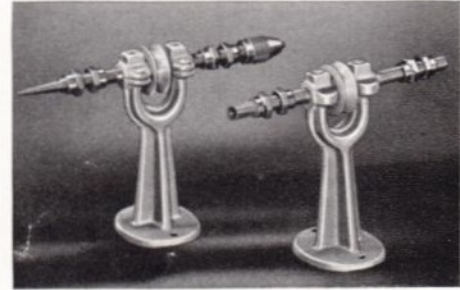
3150F—With 1/2 in. chuck.....\$1.15
3150B—With 1/4 in. chuck.....\$0.80
3150A—Less chuck.....\$0.50



Heavy Duty Polishing Head

A modern and practical polishing head. Heavy gray iron base that gives it rigidity and accuracy. Base acts as a belt guard. Can be driven from back or below. Fitted with 2 1/2" V pulley with 1/2" steel shaft running in self-lubricating bearings. Complete with tool rest; guard; 1/2" x 4" grinding wheel; 4" buffing wheel and polishing compound. Ship. weight, 9 lbs.

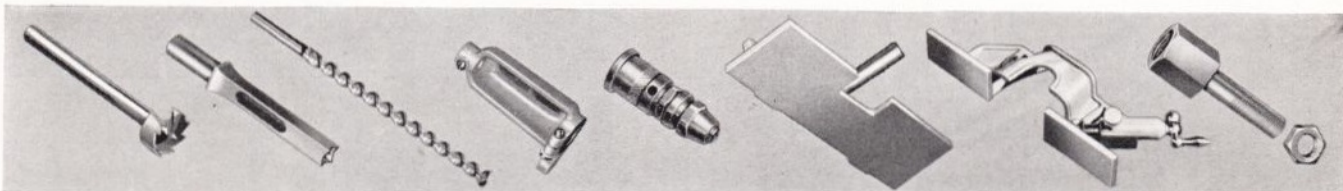
3045A—Complete as pictured.....\$3.35
3045B—Polishing head less grinding wheel, buff and compound \$2.90



Polishing Heads

Heavy gray iron base. Split adjustable bearings equipped with oil holes. 1/2 inch steel spindle. 3-jaw 1/4 in. chuck; 4 washers and lock nuts for holding grinding wheels, scratch brushes, saw blades, etc. One end has threaded taper arbor. V-pulley for 3/8 or 1/2 V-belts. Durable baked gray enamel finish. Shipping weight, 6 lbs.

3130B—Polishing Head with Chuck.....\$1.10
3130G—Polishing Head, similar to above but with plain bearings and one set of wheel flanges and without chuck.....\$.75
3130H—Polishing Head, similar to above in size and design but with plain bearings and two sets of wheel flanges. Has no chuck and no tapered spur.....\$.75



Multi Spur Bits

Fine quality tool steel, tempered and polished. Takes less power to drive than ordinary bits. Will drill straight and not clog.

Article Number	Size Inch	Price Each
359801	3/8	\$1.75
359802	1/2	1.80
359803	3/4	1.95
359804	1	2.20
359805	1 1/4	2.35
359806	1 1/2	2.75
359807	1 3/4	2.90
359808	1 3/4	3.45

Hollow Chisels

Used in drill press with mortising head and chuck listed at right. Finest quality tool steel, hardened and tempered. These chisels will hold their edge over long periods of hard usage. Designed to cut absolutely square corners.

Article Number	Size Inch	Price Each
359601	1/4	\$1.35
359603	3/8	1.50
359604	1/2	1.60

Hollow Chisel Bits

This bit is used, with hollow chisel of corresponding size shown at left for making accurate square mortise joints. Correctly hardened, tempered and ground to give proper clearance and long life. Used with mortising head and chuck.

Article Number	Size Inch	Price Each
359701	1/4	\$1.35
359703	3/8	1.35
359704	1/2	1.35

Mortising Head And Chuck

Fits both No. 3080 and No. 3081 drill presses. The chisel holder is quickly attached to the quill and holds the hollow chisel. The small chuck or collet holds the bits. These attachments with chisel and bit are all that is needed to prepare your drill press for mortising.

308063—Mortising head and chuck as pictured...\$2.25

Mortising Hold-Downs

The guide and hold-down is necessary when mortising to insure straight, even work. It simplifies the job and prevents work being lifted when chisel is raised. Below listed hold-downs can be clamped to No. 3080 and No. 3081 drill presses, respectively. Baked gray enamel finish on heavy gray iron.

308064—Ea. \$1.50
308165—Ea. 1.50

Guard and Fence

A guard and fence is extremely handy when making straight cuts. Has micrometer adjustment. By turn of a ball crank one face may be adjusted forward or backward and rigidly locked. Heavy gray iron finished in baked gray enamel. Equipped with two hardwood extensions.

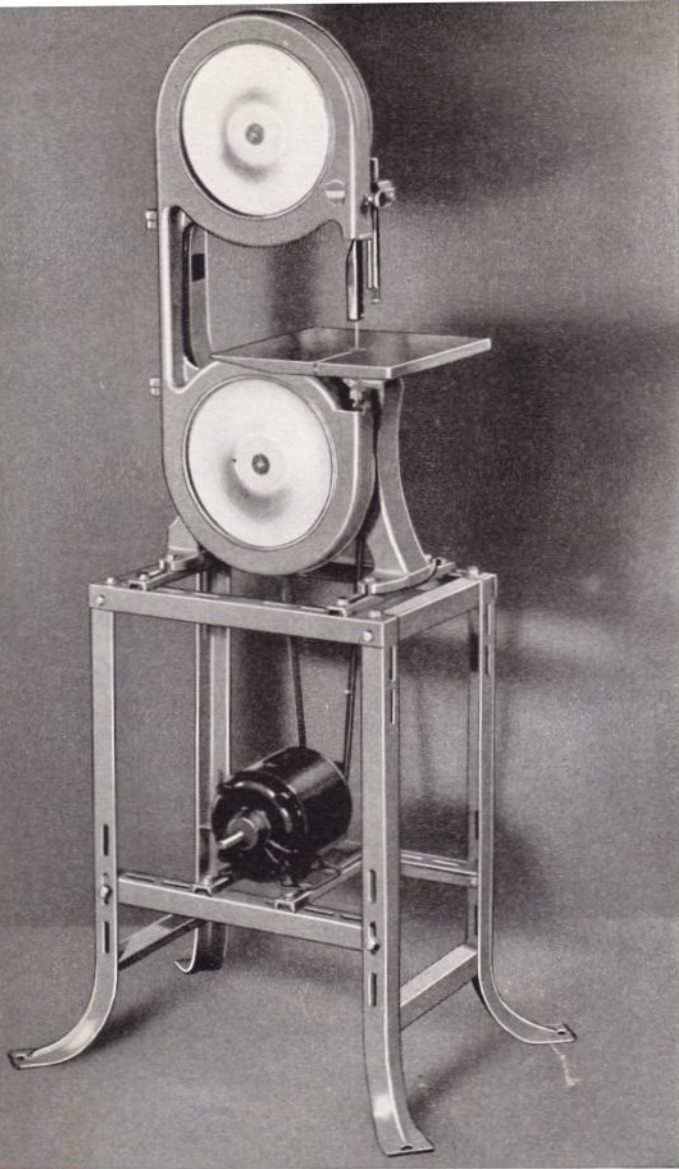
309003.....\$3.25

Shaper Adaptors

For use on #3080 and #3081 Drill Presses for shaping with 5/16" and 3/8" shaping cutters.

3593-3/8—Adaptor to fit 3/8 inch bore shaper cutters. Each.....\$0.50
3593-1/2—Adaptor to fit 1/2 inch bore shaper cutters. Each.....\$0.50

See page 28 for complete line of Chrome Vanadium Steel Shaper Cutters.



DURO Steel Stands

Adjustable steel stands provide greater convenience and eliminate power loss. Each stand provides the maximum in adjustability. One of the four stands will accommodate practically any machine. The top bars are perforated to accommodate the various tools. The motor supports are adjustable for motors of various sizes and designs. Vertical adjustment is provided to allow the use of belts of various lengths and insure their proper tension. Made of high quality materials, properly braced to insure rigidity. Welded legs.

3676—Size 13 in. wide, 14 in. long and 27 $\frac{7}{8}$ in. high. For use with our 8-inch Bench Saws, Shaper or 9-inch Band Saw. Shipping weight 29 lbs. \$6.75

3677—Size 13 in. wide, 20 in. long and 28 $\frac{7}{8}$ in. high. For use with our 24" Scroll Saw, 6" Jointer, 12" Band Saw, Bench Model Drill Press or 6" Sander. Shipping weight 30 lbs. \$6.85

3678—Size 13 in. wide, 47 $\frac{1}{2}$ in. long and 30 $\frac{7}{8}$ in. high. For use with our heavy duty 30-inch Lathe. Shipping weight 31 lbs. \$8.75

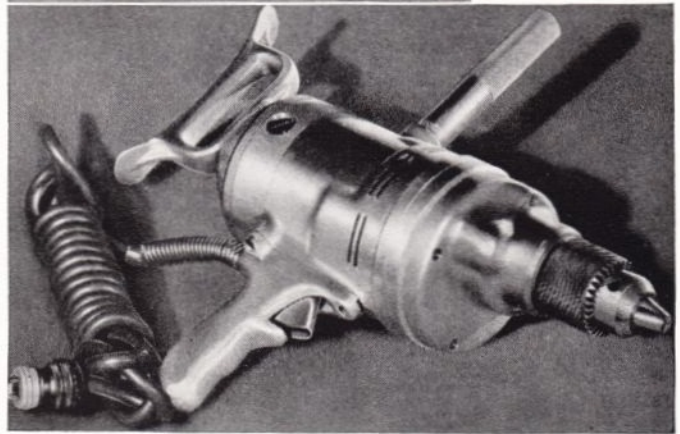
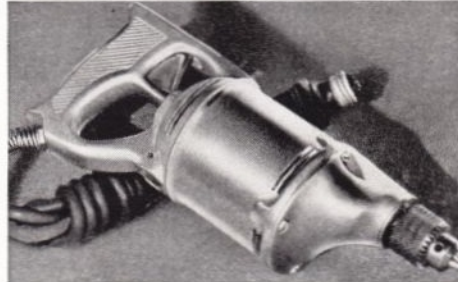
3679—Size 13 in. wide, 57 in. long and 30 $\frac{7}{8}$ in. high. For use with our production size 36 inch Lathe. Shipping weight 32 lbs. \$8.95



Adjustable Electric Light

Made your work easier by attaching an adjustable light to each tool. Arm is adjustable to different directions to flood light on work. Polished aluminum reflector with push-key socket. Complete with 10 feet of rubber cord and non-breakable plug.

3765 \$1.25



DURO Electric Drills



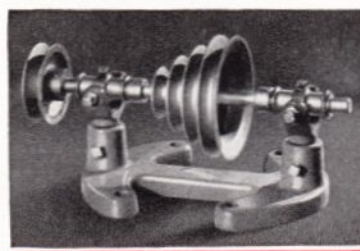
MOTORS

JACOBS CHUCKS

These Drills are engineered to stand up under the heaviest production work and to give more power output. Light in weight and easy to handle. Powered with specially designed GE motors that are guaranteed to run continuously without stalling, up to the limit of the chuck capacity. Specially designed fan and housing provides ample ventilation and prevents overheating. Jacobs Chucks are standard equipment. Armatures and spindles mounted on New Departure ball bearings. Special analysis aluminum is used to provide ample strength and light weight. All models have double reduction helical cut gears of chrome vanadium steel. Cutler-Hammer totally enclosed double pole switch with lock for continuous running on all models except Utility, which has GE switch. These Drills have a minimum of offset to the center line of chuck to allow operation in close quarters. Fitted with 10 ft. of 3-wire, heavy rubber safety cord with non-breakable plug. For 110-Volt AC or DC current, 60 cycle or less. Prices on special voltages upon request.

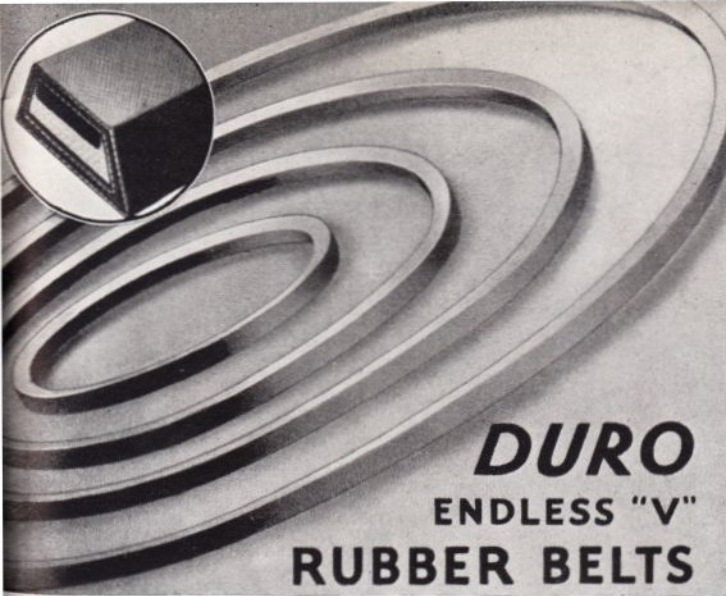
NO.	STYLE	[DUTY	CAPACITY IN STEEL	NO LOAD SPEED	SHIPPING WEIGHT	PRICE EACH
3300	DA	Utility	1/4 in.	2000	5 lbs.	\$17.95
3305	DB	Ex-Heavy	3/8 in.	2000	10 1/2 lbs.	31.50
3310	DC	Heavy	1/2 in.	1400	11 lbs.	35.00
3315	DD	Special	5/8 in.	1300	12 lbs.	36.75
3320	DF	Ex-Heavy	3/4 in.	550	20 1/2 lbs.	47.50
3325	DG	Heavy	1 in.	480	21 1/2 lbs.	54.00
3330	DH	Standard	1 1/4 in.	425	23 1/2 lbs.	57.50

DURO 4-Speed Jack Shaft



The frame is extra heavy gray iron drilled to fit same space as 1/2 H.P. motor. Ideal for quickly increasing or reducing speeds without changing or using different size pulleys. Ground steel shaft runs in bronze bushed bearings, fitted with oil cups. Heavy die cast metal pulleys. One 2 1/2-inch end pulley and one 4-inch 4-step pulley taking 3/8 or 1/2-inch V-Belts. Finished in baked corduroy gray enamel. Ship. wt., 12 lbs.

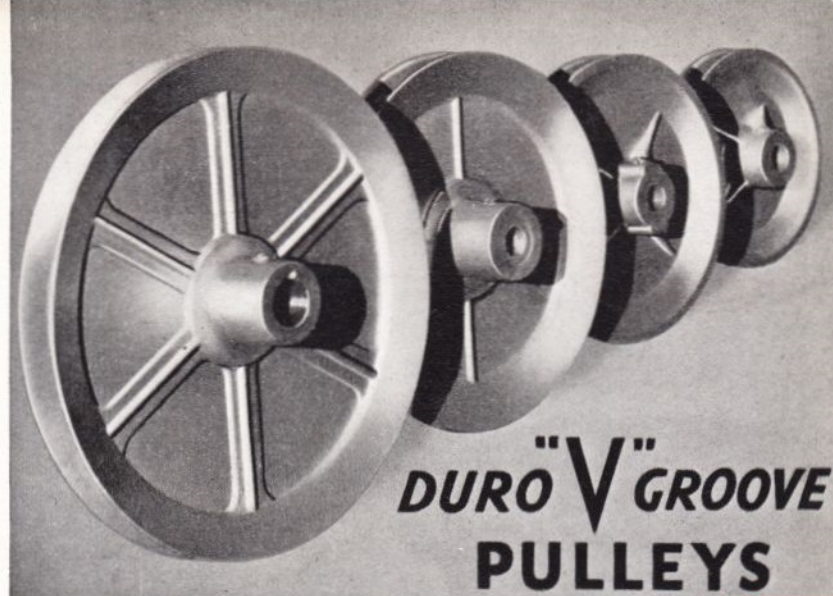
3110—Each \$2.95



DURO ENDLESS "V" RUBBER BELTS

Our Super Flex Belts are of extra fine and lasting quality. Moulded fresh live rubber and cord construction. They have been designed to give long life and high efficiency on all woodworking applications. State circumference required.

Number	Size Inches	Outside Circumference Inches	Price Each
360124	1/4	24	\$9.48
360131	1/4	31	.56
360134	1/4	34	.60
360143	1/4	43	.76
360160	1/4	60	1.02
360168	1/4	68	1.12
360226	1/2	26	.53
360228	1/2	28	.54
360233	1/2	33	.62
360237	1/2	37	.66
360239	1/2	39	.70
360242	1/2	42	.74
360244	1/2	44	.80
360248	1/2	48	.84
360250	1/2	50	.88
360253	1/2	53	.90
360256	1/2	56	.96
360260	1/2	60	1.00
360262	1/2	62	1.02
260265	1/2	65	1.08
360270	1/2	70	1.14
360277	1/2	77	1.22
360292	1/2	92	1.42



DURO "V" GROOVE PULLEYS

Scientifically designed for all V Belt applications and especially adaptable for driving woodworking tools. Safety disc type—no spokes. Made from special analysis die cast metal that has high tensile strength and is guaranteed against distortion. Light in weight. Designed to give long service under continuous production. These are not ordinary pulleys, but are balanced and run true. Finished in aluminum metal lacquer. State bore required. When bore is not stated we will ship 1/2".

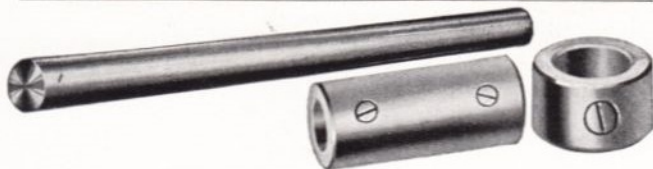
Number	Diameter Inches	Bore Inches	Price Each
340125	1 1/4	1/2, 3/4	\$0.22
340150	1 1/2	1/2, 3/4	.22
340175	1 3/4	1/2, 3/4	.24
340200	2	1/2, 3/4	.25
340225	2 1/4	1/2, 3/4	.30
340250	2 1/2	1/2, 3/4	.32
340300	3	1/2, 3/4	.37
340400	4	1/2, 3/4	.48
340500	5	1/2, 3/4	.54
340650	6 1/2	1/2, 3/4	.82
340800	8	1/2, 3/4	1.25
341000	10	1/2, 3/4, 1	1.85
341200	12	1/2, 3/4, 1	2.54

NOTE: All "V" Pulleys up to 6 1/2" for use with 1/2 and 3/4 inch Belts. Larger sizes also take 3/8 inch Belts.

Duro 2-Step Pulleys

Special analysis die cast metal balanced to run true at all speeds. Takes 1/4 or 1/2 inch "V" Rubber Belt. For line shaft, motors or machines for quick speed changes. Diameters are 2 and 2 1/2 inches. State bore wanted.

341500—1/2 or 3/4 inch bore—Each.....\$0.50



Steel Shafting

High grade ground and polished steel for use as line shafting. Held to within 2/1000 inch limits. Other lengths furnished on application. Add 1 1/2 cents per inch for 1/2" and 2 1/2 cents per inch for 3/4".

311702—Size 1/2 x 24 inches Each.....\$0.25
311705—Size 3/4 x 48 inches Each.....\$0.89

Rigid Couplings

For coupling two shafts together. Machined from solid bar steel and cadmium plated to prevent rust.

311801—1/2 inch size bore. Each.....\$0.20
311802—3/4 inch size bore. Each......35

Shaft Collars

For removing end play from line shafts. Machined from solid bar steel and cadmium plated.

311901—1/2 inch size bore. Each.....\$0.10
311902—3/4 inch size bore. Each......15

DURO Heavy

Duty Shaft Hangers

A very sturdy and practical line shaft hanger with one open side allowing the complete assembly of belts and pulleys on shaft before placing in the hangers. Specially designed for close quarters. Shafting is placed directly in hangers and does not need to be fed in from one end as in other types. Self-aligning with 1 inch vertical adjustment—from 4 to 5 inches—Bearings equipped with two self-lubricating bronze bushings with oil cup and well to renew lubrication. For 1/2 inch shafting only. Shipping weight 5 lbs.

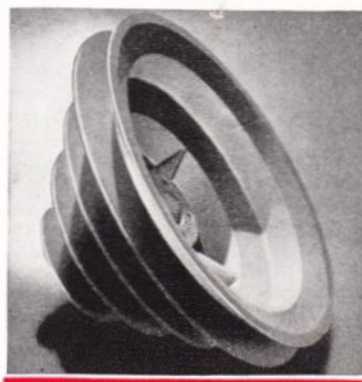
3122—Each.....\$1.95



Shaft Hangers

The base and arm are made of the high quality gray iron. The bearing is made of steel and equipped with two large phosphor bronze bearings. Broached after assembly to assure perfect alignment. Equipped with oil cups. A reservoir provided to hold an ample supply of oil assures perfect lubrication without the necessity of frequent oiling. Provision is made for both horizontal and vertical adjustment. Sufficient vertical adjustment is provided to permit lining up with 1/4, 3/4, and 1/2 H.P. motor shafts for direct drive without shimming.

3120—1/2 inch bore—Each.....\$0.95
3121—3/4 inch bore—Each.....1.25



4-Step "V" Pulleys

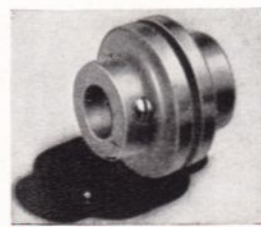
The ideal pulley for quickly changing machines from one speed to another. Made from special analysis die cast metal, scientifically designed and balanced to run true at all speeds. Will take either 1/2 or 3/4-inch "V" type rubber belts. No. 305009 for 3/4 Belts only. State bore wanted.

Number	Diameter Inches	Bore Inches	Price Each
341505	4, 3 1/4, 2 3/4, 1 3/4	1/2, 3/4, 3/4	\$0.80
341506	5, 3 3/4, 2 1/2, 1 3/4	1/2, 3/4, 3/4	1.00
305009	For 3050 Lathe	1/2, 3/4, 3/4	.75
305617	For 3056 Lathe	1/2, 3/4, 3/4	1.00

Crown Face Metal Pulleys

Special analysis die cast metal, scientifically balanced for true, smooth operation at all speeds. Set screw for locking to shaft. State bore wanted.

Number	Size Inches	Bore Inches	Price Each
341600	1 1/2 x 1 3/4	1/2, 3/4	\$0.29
341602	2 x 2	1/2, 3/4, 3/4	.32
341603	2 x 3	1/2, 3/4, 3/4	.48
341605	2 1/2 x 2 1/2	1/2, 3/4, 3/4	.40
341606	2 1/2 x 3	1/2, 3/4, 3/4	.58
341608	3 x 1 3/4	1/2, 3/4, 3/4	.44
341611	3 x 3	1/2, 3/4, 3/4	.64



DURO Flexible Coupling

Rubber cushioned for flexibility. Can be furnished with a combination of two bores for reducing. Specify bore required on each end.

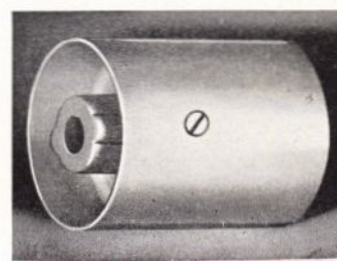
341800—1 inch hub; 1 1/4 inch outside diameter; 1 1/4 inch length; bore sizes 1/2 or 3/4 inches.

Each.....\$0.35
341802—1 1/2 inch hub; 2 1/4 inch outside diameter; 1 3/4 inch length; bore sizes 1/2, 3/4, or 1 inch.

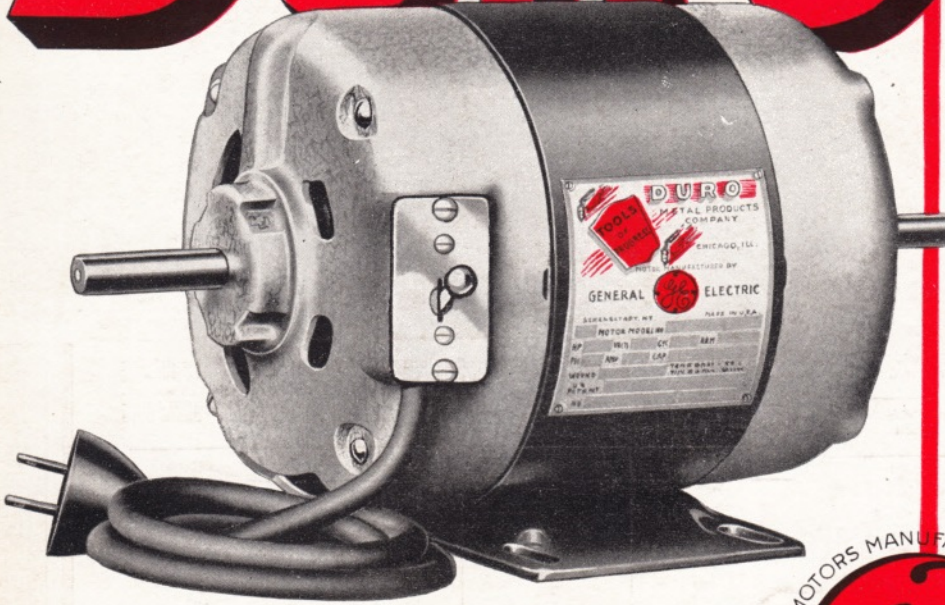
Each.....\$0.45
341804—2 inch hub; 3 1/4 inch outside diameter; 3 1/4 inch length; bore sizes 3/4, 1 or 1 1/4 inch.

Each.....\$2.45
341806—2 3/4 inch hub; 4 inch outside diameter; 3 3/4 inch length; bore sizes 1, 1 1/4 or 1 3/4 inch.

Each.....\$3.15



DURO



AMERICA'S FINEST MOTORS .. AT POPULAR PRICES

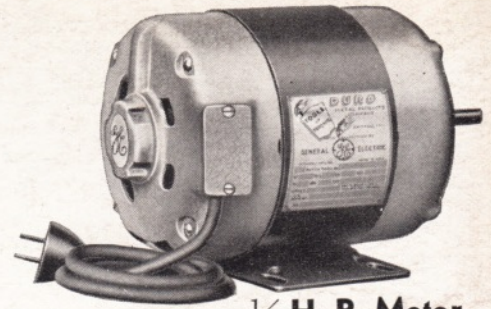
Duro Metal Products Company with the cooperation of General Electric Company has made it possible for the woodworking field to purchase standard brand motors at popular prices. Motors that incorporate all the latest engineering developments and on which the GE trademark insures the purchaser they are built to GE standards . . . the highest in the electrical field.

Power driven machinery is no better than the motor which drives it. Inefficient motors mean a poor operating machine, a loss of confidence in the tool and a dissatisfied user. Therefore, Duro has gone to great lengths to secure the best motor available, regardless of cost. The vast volume of sales created through universal acceptance of Duro tools and the active cooperation of General Electric Company has made it possible to offer for the first time . . . the latest and most improved models of standard brand motors . . . motors that will give entire and absolutely trouble free service.

Motors manufactured where every facility and resource is at the command of the finest engineers to test and prove their designs before proceeding with their manufacture, is bound to produce the greatest possible value per dollar expended. Thus they give the user such advantage as the cast aluminum rotor, properly insulated stator windings and many other improvements. This produces greater power, better starting torque, low temperature rise under constant operation, total elimination of vibration and low cost power consumption.

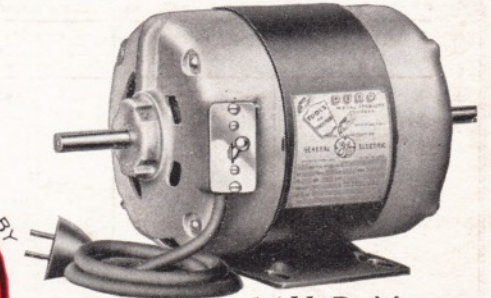
Duro motors are doubly guaranteed. Backed by the Duro Metal Products Company as being the best that can be purchased in their respective fields and carrying the regular General Electric guarantee as to service, workmanship and material. A GE service station in every large city will give you the maximum in efficient service with the least possible delay.

Prices on other motors will be given on application.



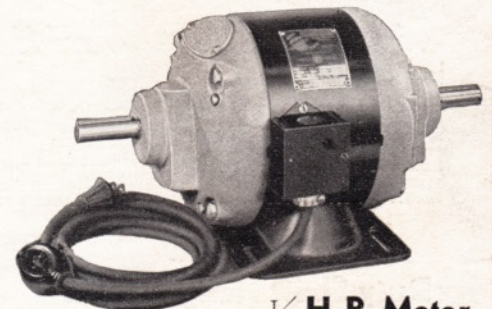
1/4 H. P. Motor

The GE single end shaft 1/4 H.P. motor is a split phase start, induction run motor, operating at 1750 R.P.M. It is statically and dynamically balanced. The phosphor bronze bearings are diamond bored for accuracy. Aluminum cast rotor with large fan insures effective ventilation. Stator windings . . . all wires are individually wound and thoroughly insulated, not merely bare wires impregnated. Bearing housings are filled with oil saturated wool yarn, which filters oil and is held to shaft by spring, providing perfect lubrication. The shaft is 1/8" at pulley but larger through bearings and motor. Height to center of shaft from base 3 1/2" 10 ft. of rubber covered cable. 3700—110 volt, 60 cycle AC. Shipping wt. 27 lbs. . . \$7.95



1/3 H. P. Motor

This GE 1/3 H.P. double end shaft ball bearing motor is a resistance split phase start, induction-run motor, operating at 1750 R.P.M. Rotor and stator are the same high quality construction as all other GE motors. They are built with exceptionally high starting torque and large reserve capacity, making them especially adaptable for woodworking applications. Equipped with New Departure Sealed Ball Bearings, they are equally applicable for horizontal or vertical running. Large fan insures perfect ventilation and prevents overheating. The 1/2" shaft protrudes full 2" from each end. Height from base to center of shaft is 3 1/4". 10 ft. rubber covered cable and internal starting switch. 3710—110 volt, 60 cycle, AC. Shipping wt. 33 lbs. . . \$12.85



1/2 H. P. Motor

The GE 1/2 H.P. Heavy Duty Repulsion Induction type motor is specially built to produce the maximum power output at a minimum cost. Starting torque is more than 350% of normal. Maximum running torque is not less than 250% of normal. The stator and rotor are built with the same precision as all other GE products. Diamond bored bronze bearings, statically and dynamically balanced rotor produce a smooth, quiet motor. Fan provides proper ventilation. Single end shaft is 3/4" diameter. Height from base to center of shaft 4 1/8". 10 ft. rubber covered cable and snap switch. Shipping weight 57 lbs. 3720—110-220 volt, 60 cycle AC. . . \$25.95 3725—Same as above, with ball bearings and double end shaft. . . 29.95

SUPERIOR CONSTRUCTION means **DEPENDABLE SERVICE**

We reserve the right to make improvements in design or price changes without notice.

POWER TOOL DIVISION

DURO METAL PRODUCTS COMPANY
2651-61 North Kildare Avenue
Chicago, Illinois

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