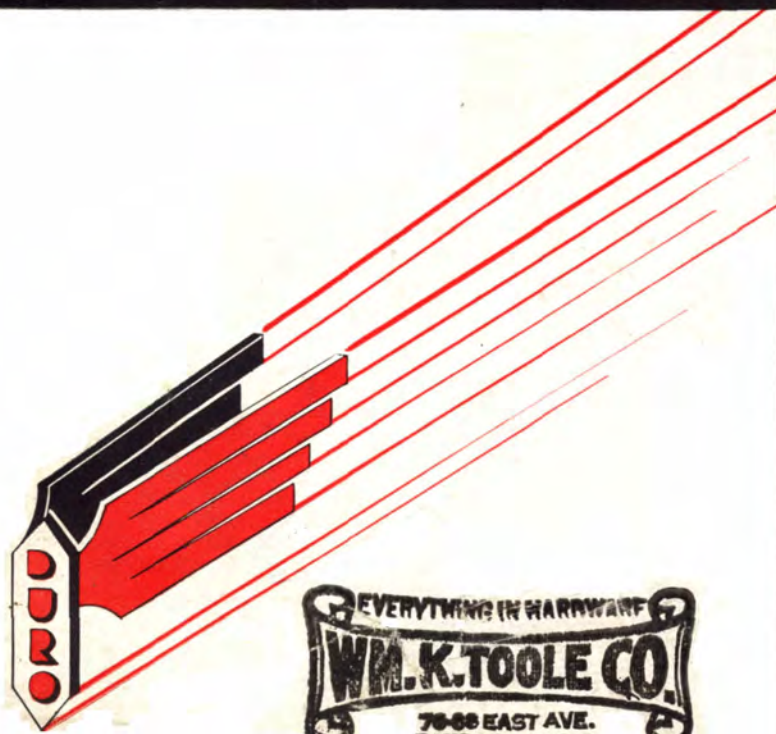


DURO

POWER DRIVEN
MACHINERY

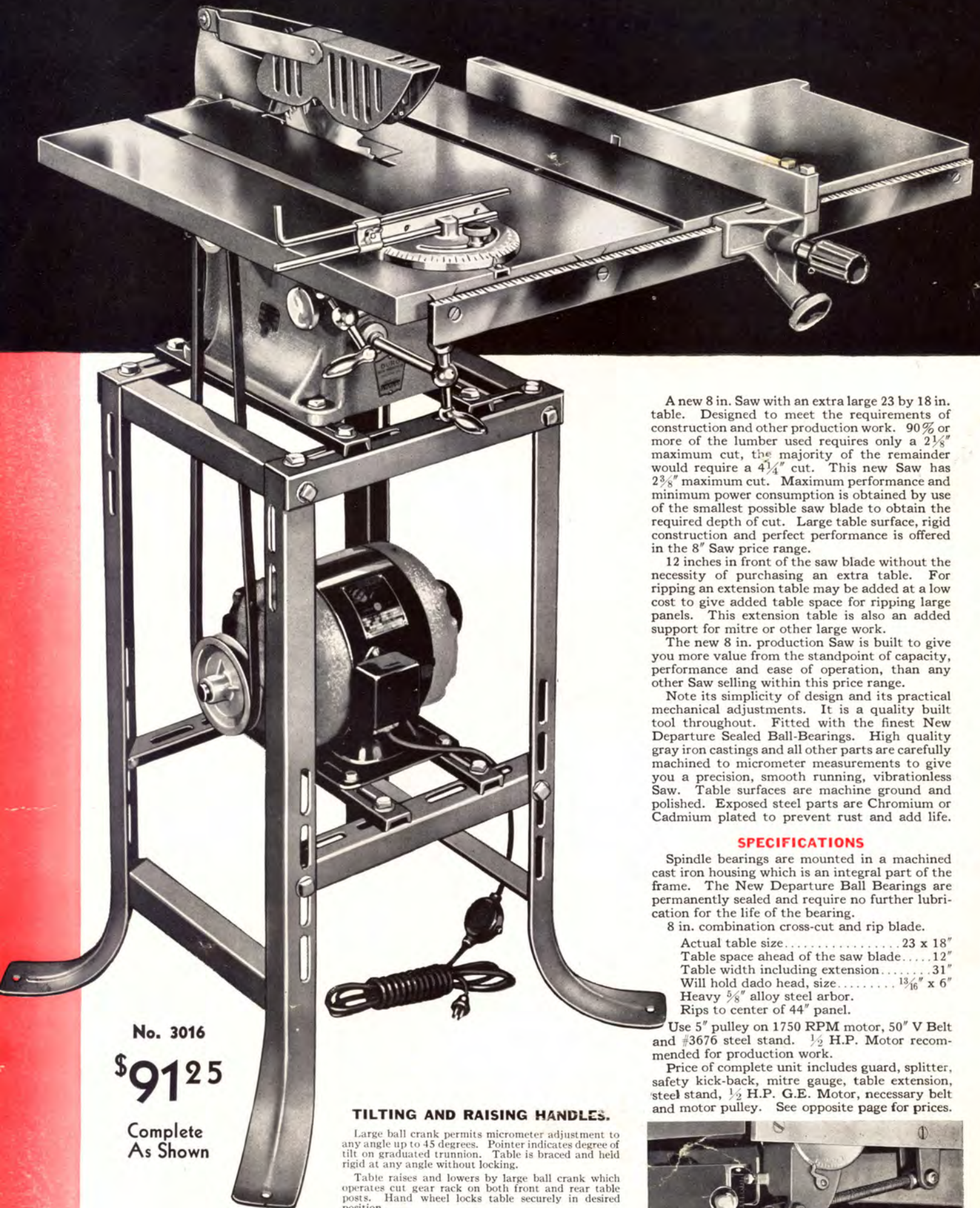


CATALOG E-38A



EVERYTHING IN HARDWARE
WM. K. TOOLE CO.
78-88 EAST AVE.
PAWTUCKET, R. I.





No. 3016

\$91²⁵

Complete
As Shown

TILTING AND RAISING HANDLES.

Large ball crank permits micrometer adjustment to any angle up to 45 degrees. Pointer indicates degree of tilt on graduated trunnion. Table is braced and held 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. Hand wheel locks table securely in desired position.

A new 8 in. Saw with an extra large 23 by 18 in. table. Designed to meet the requirements of construction and other production work. 90% or more of the lumber used requires only a 2 1/8" maximum cut, the majority of the remainder would require a 4 1/4" cut. This new Saw has 2 3/8" maximum cut. Maximum performance and minimum power consumption is obtained by use of the smallest possible saw blade to obtain the required depth of cut. Large table surface, rigid construction and perfect performance is offered in the 8" Saw price range.

12 inches in front of the saw blade without the necessity of purchasing an extra table. For ripping an extension table may be added at a low cost to give added table space for ripping large panels. This extension table is also an added support for mitre or other large work.

The new 8 in. production Saw is built to give you more value from the standpoint of capacity, performance and ease of operation, than any other Saw selling within this price range.

Note its simplicity of design and its practical mechanical adjustments. It is a quality built tool throughout. Fitted with the finest New Departure Sealed Ball-Bearings. High quality gray iron castings and all other parts are carefully machined to micrometer measurements to give you a precision, smooth running, vibrationless Saw. Table surfaces are machine ground and polished. Exposed steel parts are Chromium or Cadmium plated to prevent rust and add life.

SPECIFICATIONS

Spindle bearings are mounted in a machined cast iron housing which is an integral part of the frame. The New Departure Ball Bearings are permanently sealed and require no further lubrication for the life of the bearing.

8 in. combination cross-cut and rip blade.

Actual table size..... 23 x 18"

Table space ahead of the saw blade..... 12"

Table width including extension..... 31"

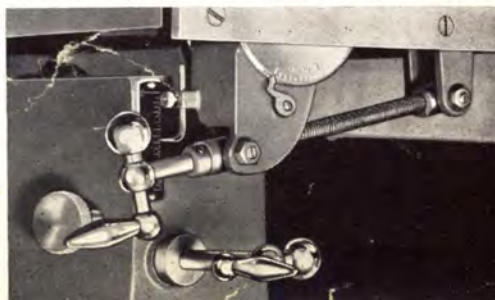
Will hold dado head, size..... 1 3/16" x 6"

Heavy 5/8" alloy steel arbor.

Rips to center of 44" panel.

Use 5" pulley on 1750 RPM motor, 50" V Belt and #3676 steel stand. 1/2 H.P. Motor recommended for production work.

Price of complete unit includes guard, splitter, safety kick-back, mitre gauge, table extension, steel stand, 1/2 H.P. G.E. Motor, necessary belt and motor pulley. See opposite page for prices.



NEW **DURO** **PRODUCTION** **BENCH SAW**

Including Guard, Splitter and Kick-Back

No. B3015

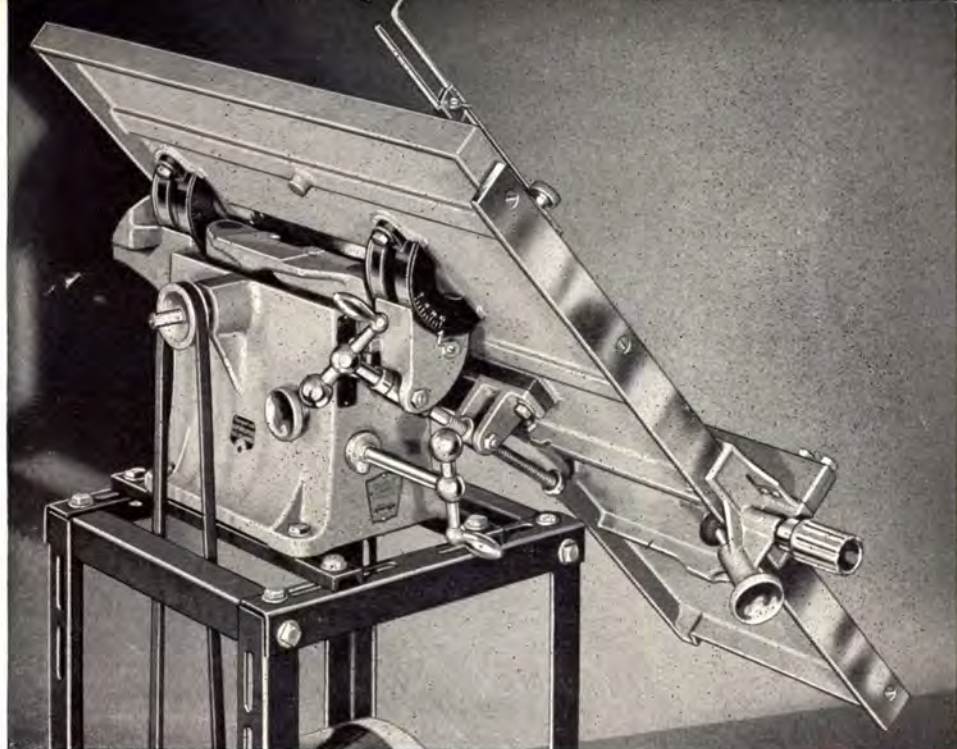
WITH 23" x 18" TABLE

\$43⁵⁰

No. A3015

WITH 20" x 16" TABLE

\$39⁹⁵



PRACTICAL MECHANICAL ADJUSTMENTS

The illustration in the upper right hand corner shows 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 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 and lower table 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.

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 for the home workshop.

Note the large, removable throat that will take up to $1\frac{3}{16}$ " x 6" Dado Heads. Blades are well guarded at the base and are protected on the top of the table by our new clear vision steel guard. For additional safety we supply the splitter and safety kick-back at no extra cost.

See page 30 for other blades.

TABLE BRACKET—TABLE MOUNTING

Note the extra heavy table bracket that 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.

PRICE INFORMATION

B-3015 Table Saw only, with 23" x 18" table; complete with guard, splitter, safety kick-back, mitre gauge, 8 in. combination blade, rip fence and 2 in. spindle pulley. Shipping weight, 120 lbs. **\$43.50**

A3015—Same Table Saw with 20" x 16" table. Ship. wt., 105 lbs. **\$39.95**

301553 Extension Table complete with graduated slide bar to match table bar. Machined to fit perfectly. Table size 13 x $13\frac{1}{2}$ in. Shipping weight 12 lbs. **\$ 4.95**

Saw complete as illustrated on opposite page. Outfit consists of Saw with 23" x 18" table; guard; splitter; safety kick-back; mitre gauge and rip fence; Extension Table with slide bar; No. 3676 Steel Stand; $\frac{1}{2}$ H.P. G.E. 110-120 volt 60 cycle AC single shaft motor with cord, switch and plug; 5 in. motor pulley; 50 in. V Belt and bolts for assembly. Ship. wt., 225 lbs.

3016 **\$91.25**

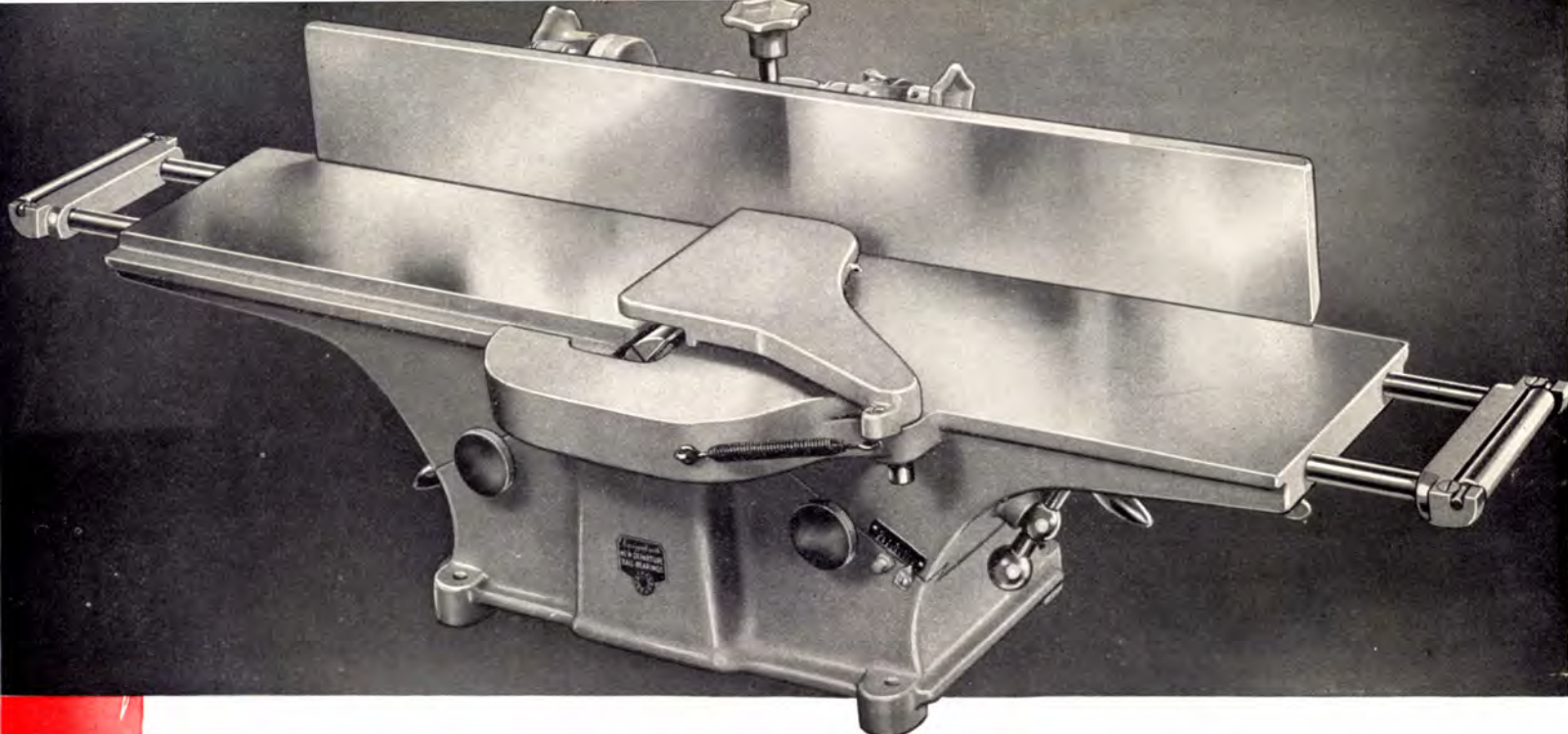
GUARD, SPLITTER AND KICK-BACK

Splitter backs up saw blade and prevents binding. The anti kick-back is a friction type made of moulded rubber and steel—the rubber grips the work—no steel teeth to mar surfaces. It grips all work from the finest to capacity of the blade instantaneously. Guard is clear vision type. These units meet all safety requirements. 301558—Guard and Splitter \$2.95 301557—Anti Kick-Back 1.00

FRICTION DRIVE RIP FENCE

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 without binding. Handle locks the fence securely in position. Guide Bars graduated in $\frac{1}{8}$ in.





DURO-PRODUCTION JOINTER

No. 3035

\$59⁹⁵

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.

Compare this jointer for size, weight and outstanding engineering superiorities and you will know why, NEW Thousands each year select our Production Jointer for their shops. It's a quality built jointer that has capacity, heavy construction and many features found in no other jointer. Our patented extension tables alone, increasing the overall length of the tables to 60 inches, place this unit in a class by itself.

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 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. 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. Upright hand wheel loosens the fence base casting for moving it across the table.

SPECIFICATIONS

Shaft runs on New Departure Permanently Sealed Ball-Bearings with cutterhead dynamically and statically balanced.

Safety Type Head with three 6 in. High Speed Steel Blades.

Capacity.....	1/2 x 6".
Rabbeting-Edge.....	1".
Size Front Table.....	16 x 7 1/2".
Size Rear Table.....	17 x 7 1/2".
Length of Table Surface.....	34 1/2".
Overall Length with extensions.....	60".
Overall width.....	20".
Overall height.....	13".

Use 5 in. Pulley on 1750 R.P.M. 1/2 H.P. Motor to give you a speed of 4500 R.P.M.; 50 in. V Belt and No. 3677 Steel Stand.

Shipping weight..... 150 lbs.

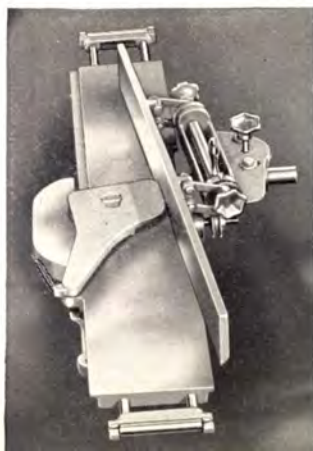
60-Inch Table with Extensions

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.

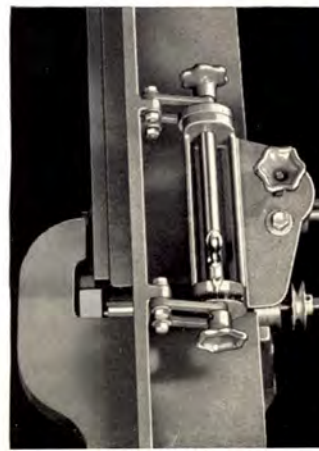
Note the rip fence swivelled to angle, accomplished by loosening two bolts with wrench provided. Very useful feature allowing operator to make a shearing cut.



Blades Guarded at All Times

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 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 depth of cut.



NEW **DURO-PRODUCTION** COMBINATION JOINTER AND TABLE SAW

Just what you have been looking for . . . a Production Jointer and a Table Saw in one compact unit. One motor operates both tools from any light socket. An ideal combination for cabinet and pattern shops, schools, building contractors, etc. Can easily be loaded on a truck and portable enough to be moved from one job to another. A unit of this type will pay for itself in one construction job, in both time and labor saved.

This combination is very practical and convenient and will handle the majority of woodworking operations, such as ripping, cross-cutting, dadoing, tenoning, mitering, jointing, etc. You also have the advantage of running both tools at one time or individually as you may desire. You will note that this combination is very compact and requires small space. The motor is mounted directly below in the center of both tools, giving belts a straight line, in direct line with the tools. This also eliminates excess loss of power and greatly adds to the safety.

Outfit consists of our No. B3015 Production Saw described on page 2; including the larger table; table extension; splitter and

kick-back. Also our No. 3035 Production Jointer fully described on opposite page. Both tools are mounted on a rigid, well braced steel stand that includes motor supports. Note the extra base under the table saw that raises the table sufficiently to clear the Jointer when cross-cutting extra long and wide lumber. Proper size pulleys and belts are also included.

SPECIFICATIONS

Overall width	4 ft. 6 in.
Overall depth	3 ft. 2 in.
Overall height	3 ft. 8 in.
Capacity of Saw	2 3/8 in.
Will hold Dado head, size	1 3/16 x 6 in.
Capacity of Jointer	1 1/2 x 6 in.
Shipping weight of complete outfit, less motor	325 lbs.
3036 Complete outfit less motor	\$123.75
301575 Sub-base only; fits our No. B3015 and A3015;	
shipping weight 13 lbs.	\$ 3.50
3675 Steel Stand only, Shipping weight 32 lbs.	\$ 9.45

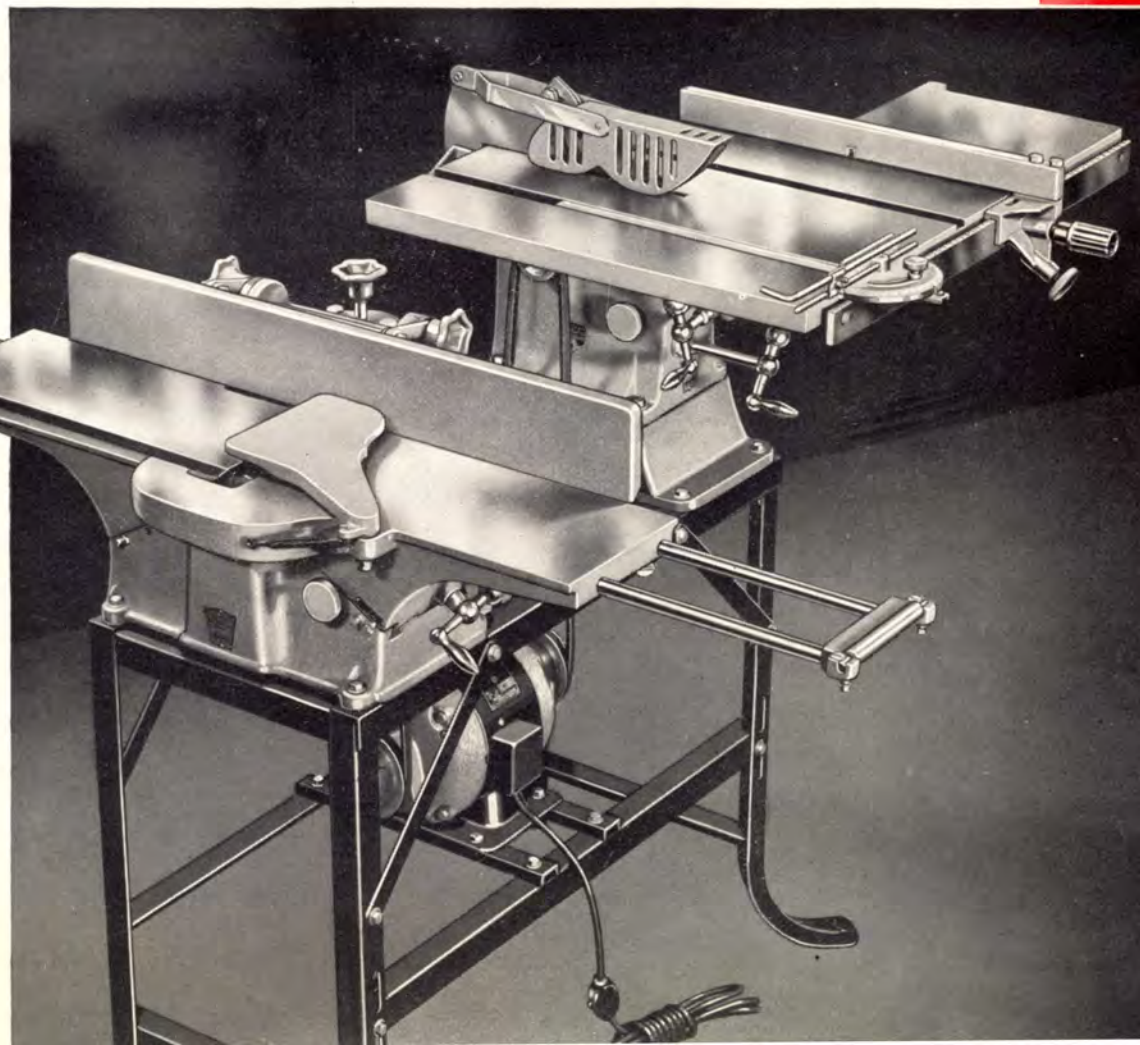
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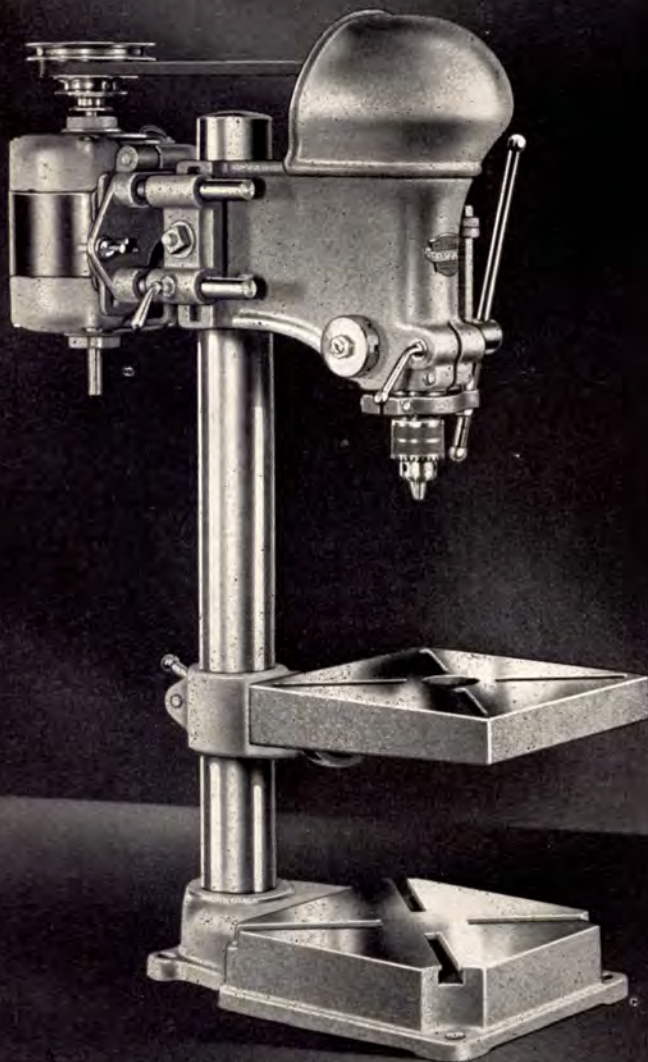
\$**123⁷⁵**

COMPLETE

Outfit As
Pictured
Less Motor

- Production Jointer with 6x1/2 in. capacity.
- Jointer Bed extends to full 60 inches.
- Three Blade Cutter Head operates on New Departure Sealed Ball-Bearings.
- 8 inch Production Saw with 2 3/8 in. capacity.
- Saw has large 23x18 inch table and rips to center of 44 in. panel with extension added.
- Rigid, well braced all steel Stand.





NEW **DURO-PRODUCTION**

BALL BEARING DRILL PRESS BENCH MODEL

No. C-3080

\$63⁵⁰
LESS
MOTOR

CAPACITY — $\frac{5}{8}$ " IN STEEL

A new and different Drill Press that is outstanding in design, with mechanical features that surpass anything ever offered before. Unusually smooth and quiet at all speeds—entirely free from vibration—gives greater flexibility and longer life.

Part for part, these new Drill Presses are built with accuracy making them suitable for fine or close work and especially suited for heavy duty production work in factories, shops, schools, etc. where continuous running under load demands quality. Note the unusual design and massive head that is fitted with radically new designed spindle consisting of three units. The upper spindle is mounted on New Departure Sealed Ball Bearings, and does not project through the spindle but is keyed to it and is equipped with six splines. This method of construction eliminates the movement of the spindle through the pulley, entirely eliminating friction and other objectionable features usually caused by spindle travelling through pulley.

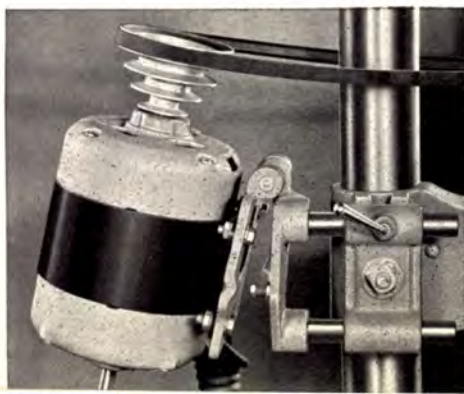
The spline sleeve in which the vertical movement takes place is continued within the quill. This sleeve connects the driving spindle and the driven spindle and floats within the quill—insuring free movement, and perfect alignment with completely sealed working parts. The chuck spindle is also splined and operates within the spline sleeve. This spindle is mounted on two New Departure Sealed Ball Bearings which are also contained within the quill. Bearing mounting of the spindle makes it extremely rigid and free-running insuring precision accuracy.

All castings are of carefully selected, seasoned gray iron, machined to micrometer accuracy. The upper table has a machine ground, polished surface with slots for bolting on jigs, shaper guard and mortising hold down. This table can also be tilted to 45° in either direction or entirely swung out of the way. The bottom table or base is also machine ground and polished. It is fitted with "T" slots, a very desirable feature for bolting down jigs and other work. This Drill is fitted with a $\frac{5}{8}$ " Jacob's keyed chuck. Graduated depth gauge with positive stop lock, adjustable depth gauge with pointer to indicate depth of hole being drilled. 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 $\frac{1}{8}$ inches. Head stock is also fitted with lever lock for locking quill when routing.

Hinged Motor Mounting

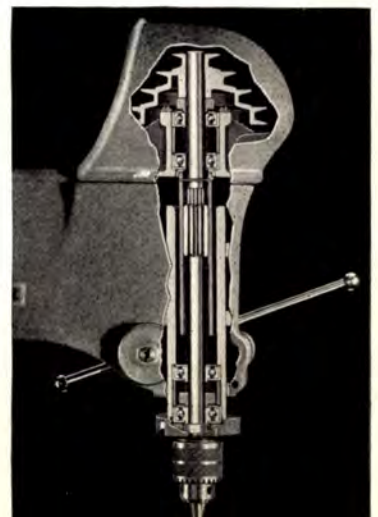
The illustration below pictures our new, adjustable hinged motor mounting. With this mounting, motor is bolted to the bracket which operates on a hinge. Changes from one speed to another are made by simply lifting motor by hand and changing belt to the desired speed. This procedure eliminates the necessity of using wrenches to make adjustments and side-steps the difficult task of prying a belt down from one step to another. You do not have to remove the head pulley cover to change speeds.

This type of motor mounting also assures proper belt tension at all times and longer belt life, as the exact weight of the motor rides on the hinge, giving the exact tension needed at all times. The sliding bars held by the hand locking lever provide a wide variation of adjustments.



Spindle Assembly

Illustration at right is cross sectional view showing mechanism of the Drill Press Head. Note the pulley spindle mounted on two New Departure totally sealed Ball Bearings. These large bearings are widely spaced to insure a true running shaft. The chuck spindle is also mounted on two large Ball Bearings properly spaced to take the radial load and end thrust and eliminate all whip. Also note the six spline construction which telescopes within the quill and the fact that all working parts are contained within the quill and housing which are sealed from grit and dirt.



NEW **DURO-PRODUCTION** BALL-BEARING DRILL PRESS

No. C-3081

\$73⁵⁰
Less
Motor

FLOOR MODEL

The versatility of this new Drill Press is another outstanding feature. It may be used for drilling, routing, mortising and shaping.

All these operations are accomplished without the necessity of purchasing an extra spindle or the trouble of disassembling and changing your spindle. The operations are all done with the same spindle by simply attaching small inexpensive adaptors in place of the chuck.

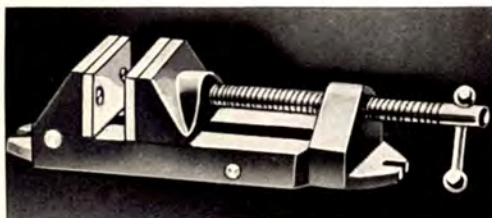
Drilling, mortising, and routing are done with the head upright. Shaping may also be done in this position or with the head reversed.

We offer you a selection of either Bench or Floor models, the only difference being in capacity to meet personal preferences of craftsmen and mechanics. The Floor model, you will note, is equipped with a large production size table. This is standard equipment and not an extra. The surface is machine ground and polished and equipped with "T" slots for holding down jigs etc. Table is also drilled to hold routing pins and has a capped hole for use when shaping. This table is adjustable to 45° in either direction or may be completely swung out of the way.

SPECIFICATIONS

STYLE OF DRILL	C3080 BENCH MODEL	C3081 FLOOR MODEL
Capacity of Jacobs keyed chuck	5/8"	5/8"
Number of speeds	13	13
Speed Range	590, 1275, 2450, 5000	590, 1275, 2450, 5000
Distance of spindle travel	4"	4"
Drills to center of circle	14"	14"
Machine distance from base to jaws	17 1/2"	47 1/2"
Overall height	37"	67"
Overall width	11 1/2"	13 3/4"
Size of upper table, machined top	10 x 10	10 x 11
Size of base, machined surface	10 1/2 x 10	12 x 12
Overall size of base	10 1/2 x 15 1/2	12 1/2 x 16 1/2
Diameter of ground steel column	2 3/4"	2 3/4"
Shipping weight	114 lbs.	153 lbs.
Price less motor, with pulley and belt	\$63.50	\$73.50

A Jacobs keyed chuck size 0 to 1/2" can be furnished for those requiring a drill for small wire gauges. If wanted in place of regular 5/8" chuck deduct \$1.85.



Adjustable DRILL PRESS VISE

ADJUSTABLE DRILL PRESS VISE

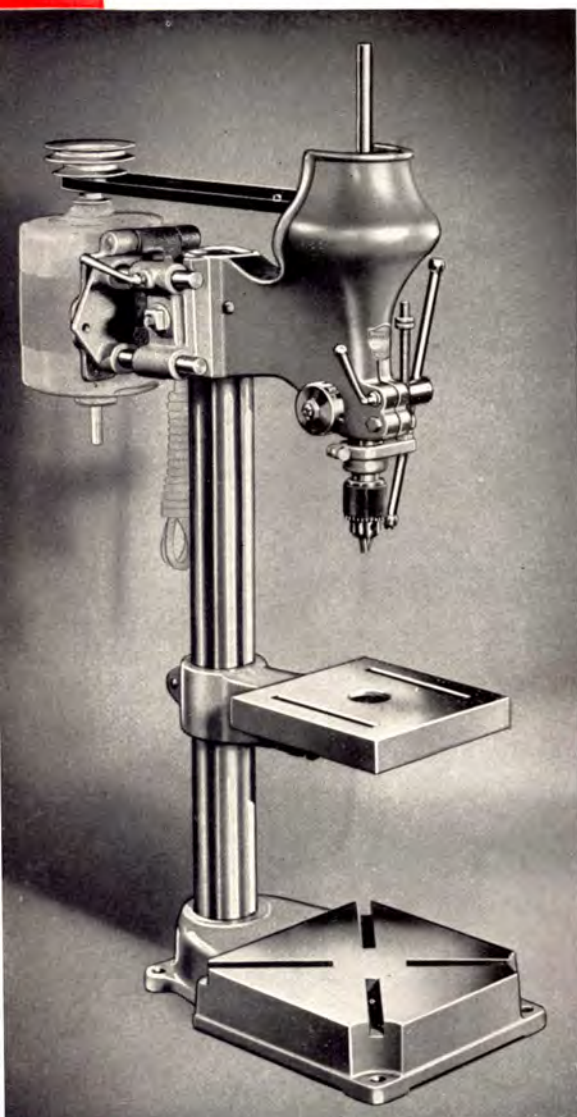
An invaluable accessory to the Drill Press particularly where it is necessary to drill irregular or tapered pieces or other shapes that are hard to hold. Made of a heavy casting that is well ribbed to provide the necessary strength. A heavy screw with sliding bar is provided for tightening. Two extra 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.....\$2.50



DURO - PRODUCTION

DRILL PRESS



Our two popular selling drill presses having exclusive mechanical features found in no other drill press in this price range. You have a choice of either Bench or Floor model—there is no difference in the size or style of the head, nor is there any difference in the smooth, vibrationless operation and the precision of the working parts. The same quality marks the two models. The difference is in the type alone, to meet personal preference of Craftsmen and various tool capacity requirements.

Note the massive gray iron heads and the perfect bearing support of the spindles—the massive columns and the heavy, carefully machined bases and tables. Everything denotes quality. All castings are fine quality, seasoned gray iron. Bases and tables are milled and machine ground to exacting limits. Note the extra large bases and the extra large tables. Also note the bases are supplied with T slots, an excellent feature for quickly bolting down fixtures. Slots are also spaced to accommodate shaping guard or mortising hold-down. Spindle runs on long, self-lubricating bronze bearings with New Departure Sealed Ball-Thrust Bearing.

Another feature is the hinged motor mounting. Changes from one speed to another are made by simply lifting motor by hand and changing belt to the desired speed. No wrenches needed to make adjustments. This type of mounting also assures proper belt tension at all times and longer life to the belt.

Graduated depth gauge with positive lock stops. Adjustable with pointer to indicate depth of hole to be drilled. The scale may be set at 0" regardless of position of quill. Head stock is also fitted with lever lock for locking quill when routing or shaping.

Our drill presses can be used for drilling, shaping, mortising, routing, etc. One spindle does all operations, no need to buy extra spindles. Inexpensive adaptors are used for these various operations.

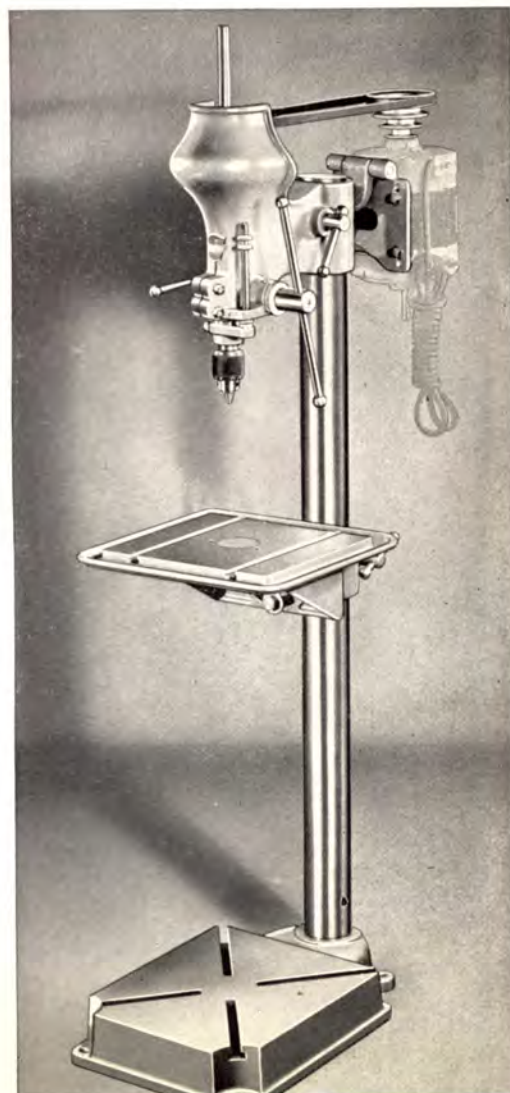
See page 33 for accessories.

BENCH MODEL

No. **\$43.50**
B3080 LESS
MOTOR

FLOOR MODEL

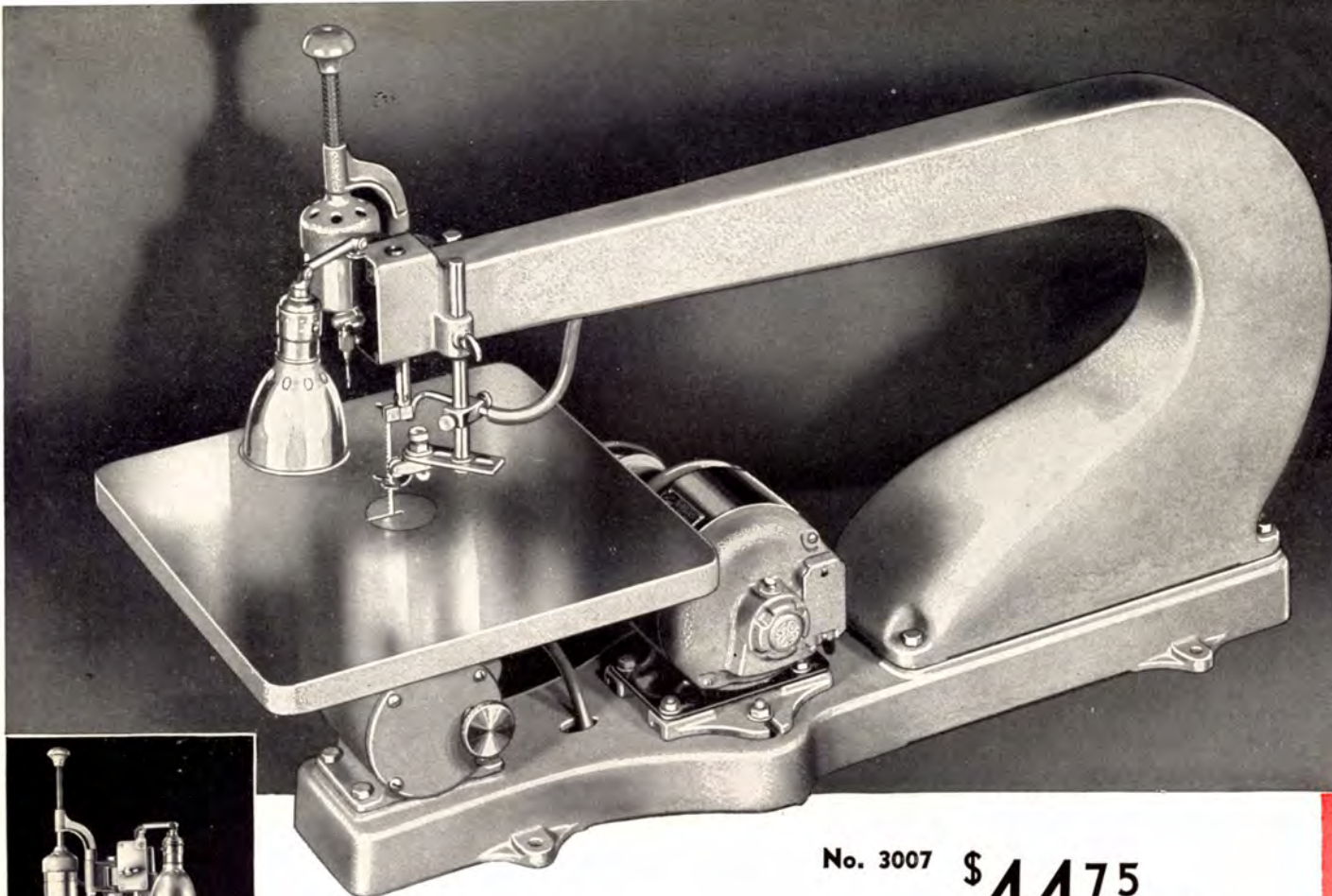
No. **\$49.95**
B3081 LESS
MOTOR



GENERAL SPECIFICATIONS

Style of Drill Press	B3080 Bench Model	B3081 Floor Model
Capacity of Jacobs Keyed Chuck.....	1 1/2"	1 1/2"
Number of speeds.....	13	13
Range of speeds.....	760—4000 RPM	760—4000 RPM
Distance of spindle travel.....	4 1/2"	4 1/2"
Drills to center of circle.....	14"	14"
Maximum Distance from base to jaws.....	16 3/4"	46 1/2"
Maximum Distance from table to jaws.....	13 3/8"	41 3/4"
Overall width.....	10 1/2"	13 3/4"
Overall height.....	40"	70"
Overall depth including motor.....	23 1/2"	25"
Size of upper table.....	8" x 8"	12 3/4" x 13 3/4"
Ground surface of base.....	10 x 10"	12 1/8" x 12 1/8"
Base overall.....	10 1/2" x 15 1/2"	12 5/8" x 16 3/4"
Diameter of ground steel column.....	2 3/4"	2 3/4"
Shipping weight.....	105 lbs.	142 lbs.
Price as illustrated less motor.....	\$43.50	\$49.95

See Page 36 for a complete line of motors



No. 3007 \$ **44⁷⁵**
Less Motor and
Drilling Attachment

NEW **DURO-PRODUCTION** 30-In. SCROLL SAW

New and revolutionary in design and positively the smoothest and most improved scroll saw ever offered regardless of name or price. Years ahead in design with engineered improvements found in no other scroll saw.

The most important factor for smooth scroll sawing is proper blade tension. Our new production scroll saw is the first and only scroll saw providing both "TOP AND BOTTOM" blade tension. This is accomplished by a patented mechanical device having an adjustable spring tension on both the upper and lower spindles. This tension adjustment provides a cantilever action and synchronizes all working parts with the result that there is an even tension on the saw blade at all positions of the stroke and a smooth, even flow of power. This adjustment eliminates all whip from the saw blades as formerly produced by the old coil spring mounting and thus reduces blade breakage to a minimum. The smallest and finest blades can be used as well as the heaviest with the assurance that best results may be obtained.

All the castings are made from seasoned gray iron with all parts carefully machined to micrometer measurements. The base is made in one piece, well ribbed for strength. Weight is evenly distributed to rigidly support the upper arm. The arm or frame is of the latest, box type construction. It is well ribbed and re-enforced inside to give rigidity and to completely eliminate vibration. Note the extra large table, 15" x 15", that is also made of seasoned gray iron with a machine ground and polished top with large unmoveable aluminum disc for blade protection.

The driving mechanism is balanced to minimize vibration. All parts are machine ground and held to the closest limits. 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. Crank shaft operates on New Departure Sealed Ball Bearings. The operating mechanism is actually as carefully designed and balanced as the crank shaft of a fine automobile.

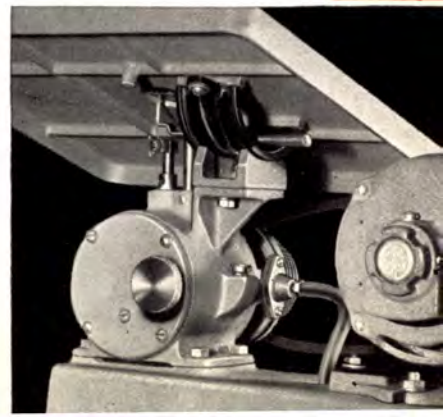
Hardened steel, tight gripping jaws on both upper and lower chuck. Fitted with wing nut for quick change of blades. The upper chuck spindle runs in two self-lubricating bearings, keeping the blade absolutely vertical at all times. Fitted with adjustable hold-down foot and also aluminum disc in table to protect saw blades. Our new and exclusive drilling attachment is an extra. It is especially useful for drilling your scroll saw work right on the table. Fully described on pages 10 and 11.

SPECIFICATIONS

Capacity	30"
Overall length 43", width 15", height 21"	
Actual table size	15" x 15"
Blade size	6"
Shipping weight	155 lbs.
3007 Scroll Saw, complete as pictured including lamp, V Belt, and 4-Step Motor Pulley. Less Motor and Drilling Attachment	\$44.75
3351 Drilling Attachment with 8 ft. cord	\$ 8.95

Table Trunnion

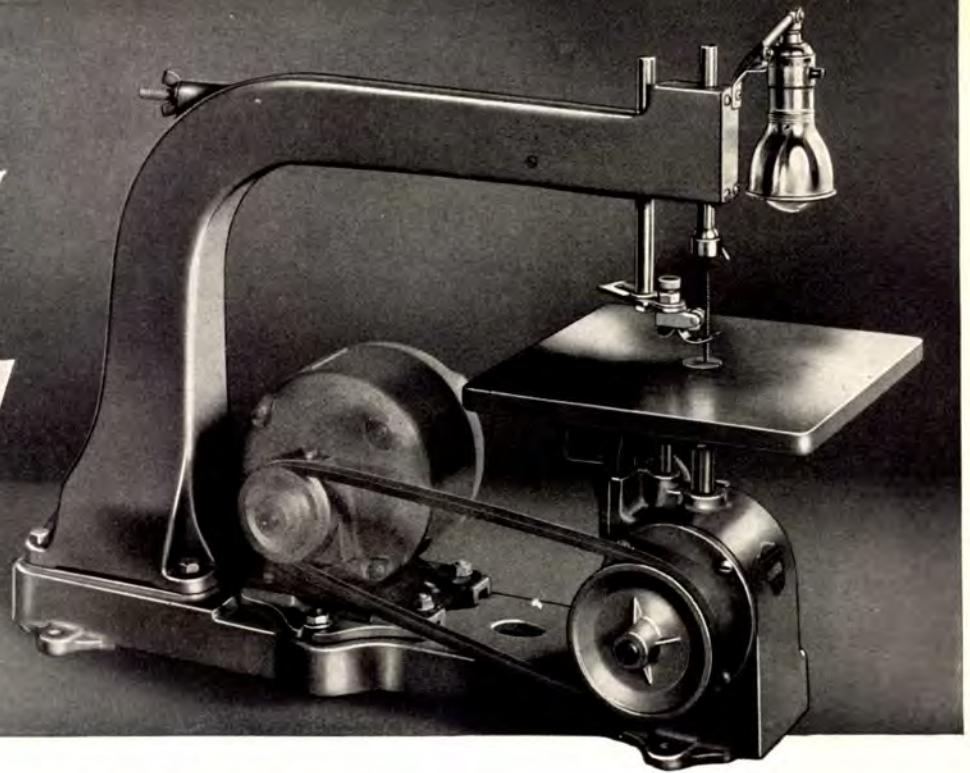
Note the hand knob on the crank case which provides spring tension on the lower part of the mechanism. By turning the knob the tension on lower spindle may be synchronized with the tension on the upper spindle providing even tension of the blade. Also, note the piston type pump which has a positive action to blow saw dust from the work. Note the lower chuck jaws which are made of tempered steel and are tightened by a thumb screw and the fact that the blades may be placed in these quick acting jaws from the front. This also applies to the upper jaws. Further note the adjustable blade guide under the table. Especially useful for sabre sawing as it may be adjusted to a position immediately under the table to secure the proper support. Heavy trunnion and mountings with double ways provide adequate support for the table. Quick adjusting hand lever locks the table when tilted.



DURO HEAVY DUTY 16 INCH SCROLL SAW

No. 3003
\$24.85

Less Motor, Belt & Pulley



An improved mechanism of heat treated steel and high grade alloy parts, perfectly balanced—A new spring hold down foot—An electric light for perfect visibility—Blade guides above and below the table—An adjustable motor base as an integral part of the machine—The spring tension illustrated on the opposite page (an exclusive feature) and many other improvements makes it an outstanding Scroll Saw value. Meets the demands of the artisan requiring a big machine that can be operated in a limited amount of space.

Vibrationless performance has been achieved by combining skillfully designed castings with a perfectly balanced mechanism. The base casting is made in one piece of 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. Crankshaft operates on New Departure Sealed Ball-Bearings.

The heavy 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 on 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 24 inch scroll saw. ¼ H.P. is all that is required to run this unit because it is so well balanced. Equipped with 4" pulley (use 3" pulley on motor for average work). Machine can be run at much higher speeds, if required, without decreasing its efficiency.

Capacity.....	16"
Cuts to center of circle.....	32"
Overall length, 27½"; Height, 18¾"; Width, 10½".	
Actual table size.....	10 x 10
Blade length.....	5"
Shipping weight.....	67 lbs.
3003—As pictured, less motor, pulley and belt.....	\$24.85

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.

Hardened and tempered steel chuck with adjustable jaws, it will hold finest fret saw blades as well as 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. ¼ 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.



NEW DRILLING ATTACHMENT

Another new attachment to help the Craftsman do better work; easier and faster. It is a special drilling attachment that is quickly attached to any of our scroll saws or in fact to any scroll saw made. It is bolted on the upper arm with a hinged mounting so that it swings in any desired position.

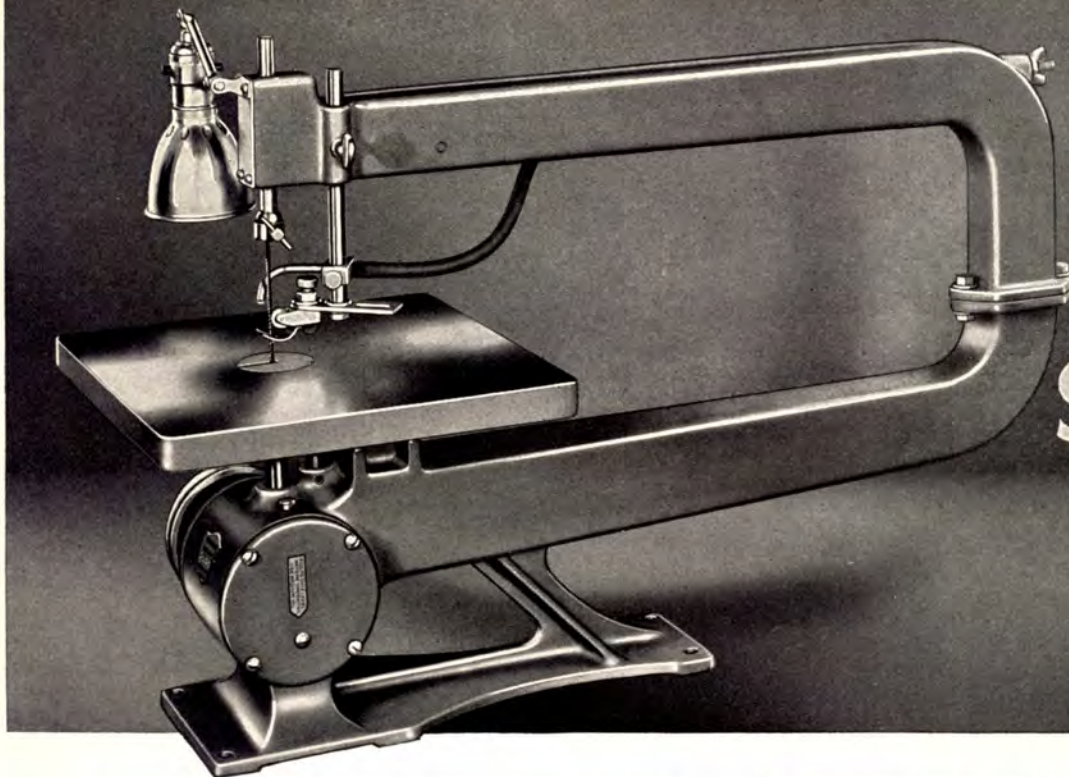
This new drilling attachment will be found especially useful for drilling your scroll saw work right on the table. In cutting for inlay work, or raised or lowered relief work, it permits you to tilt the table and drill every hole uniformly at the proper angle. It also saves time on any scroll saw work by drilling the holes right on

your table and then inserting your blade and continuing your scroll saw work.

An excellent quality motor turning approximately 10,000 R.P.M. It is fan cooled and will run continuously without overheating. Fitted with special self-lubricating bronze bearings. Has a sleeve type chuck with 2 collets to fit sizes 0 to ⅛ and ⅛ to ⅜ inches. You will note it has a spring in the handle for quick return after drilling. Complete with 6 ft. rubber cord and plug, also switch. Motor can be removed for many other uses fully described on opposite page. Shipping weight 3 lbs.

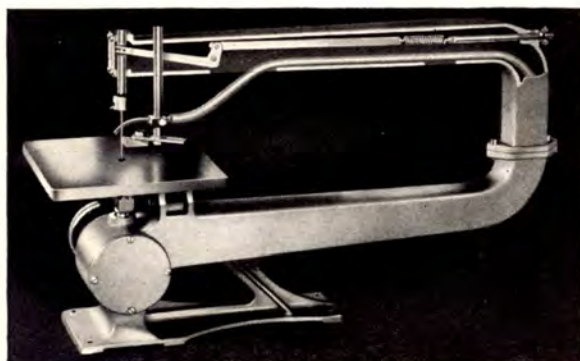
3351..... **\$8.95**





DURO PRODUCTION 24 INCH SCROLL SAW

No. 3005
\$29.95
AS PICTURED



SPRING TENSION

Illustrated above is a new, 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 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 rear of upper arm you get the proper spring tension. Spring moves only $\frac{1}{4}$ 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.

The many improvements and refinements added to this new Production Scroll Saw make it an excellent 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 extraordinarily substantial frame—by the use of a carefully balanced operating mechanism running on Sealed New Departure Ball-Bearings,—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.

Solid gray iron main casting and upper arm are of the hollow, full box style construction. 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 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.

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, and designed to reduce vibration to a minimum. 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 $\frac{1}{4}$ H.P. Motor; 50 inch belt and No. 3677 steel stand.

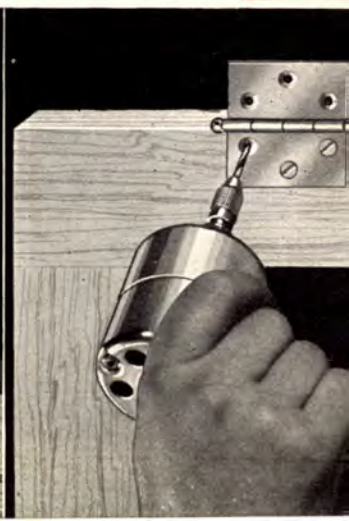
SPECIFICATIONS

Capacity.....	24"
Cuts to center of circle.....	48"
Overall length, 33"; Height, 19"; width, 12".	
Actual table size.....	12x12
Shipping weight.....	85 lbs.
3005—as pictured, less motor, pulley and belt.....	\$29.95

Fits Practically All Makes of Scroll Saws

The two illustrations at right show you only two of the many ways that this new Drilling Attachment may be used. By simply loosening set screw, motor slips out of holder and is used as a portable hand drill. The unusually high speed of 10,000 R.P.M. makes it suitable for small project work.

It is especially suitable for carving, routing, grinding, filing, sanding, buffing, drilling, and 101 other uses. Cabinet and pattern makers and radio repair men, etc. find it valuable because of its size and high speed. Just the right size tool for the hard-to-get-at places. It is a quality constructed drill and is fully described on opposite page. Sleeve chuck with collets to hold 0 to $\frac{1}{16}$ and $\frac{1}{16}$ to $\frac{1}{8}$ inches. Outstanding value at our low price.

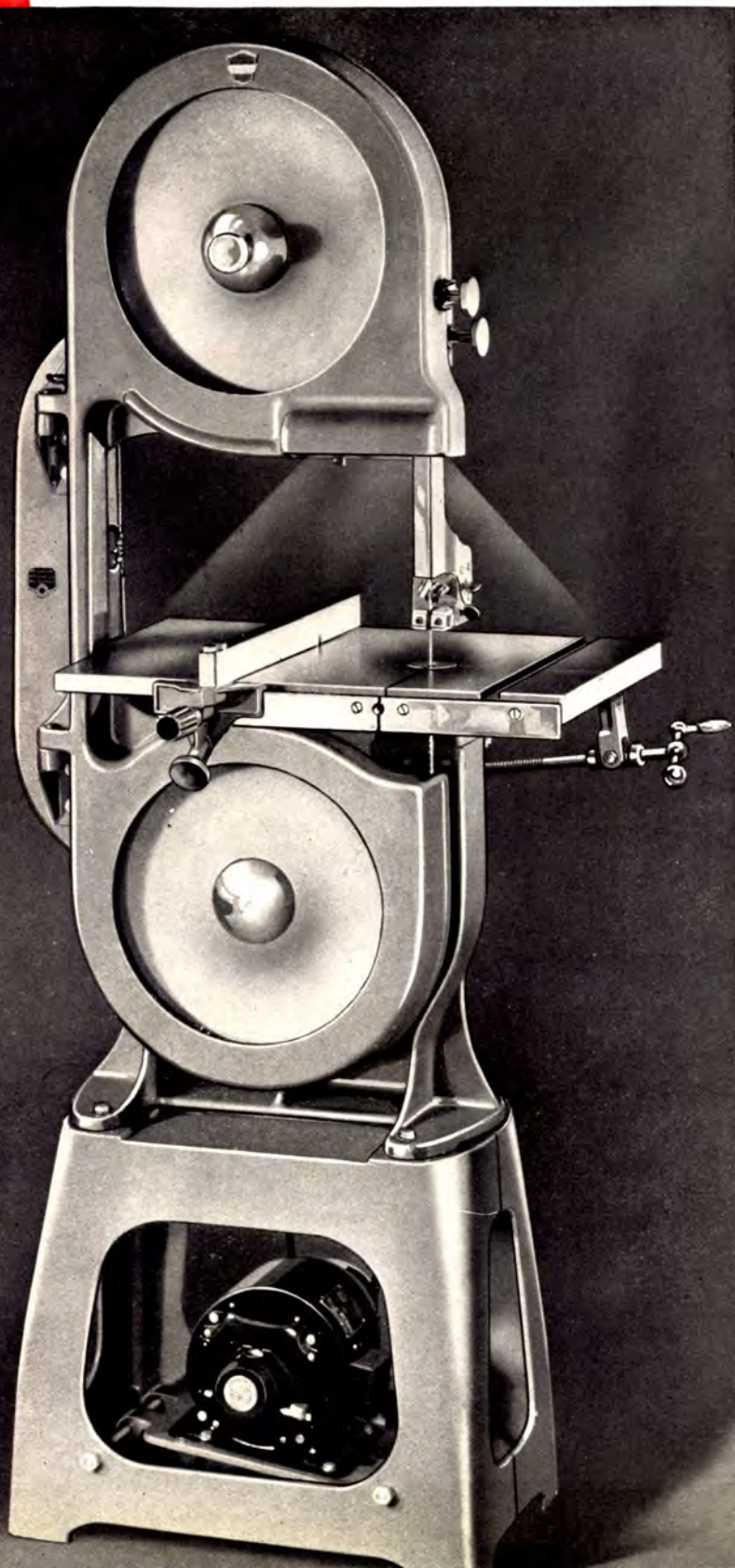


DURO - PRODUCTION **16-INCH BAND SAW**

No. 3023

\$127⁵⁰

BAND SAW ONLY



- **CAPACITY, 16 $\frac{3}{8}$ " x 10 $\frac{3}{8}$ " 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 $\frac{1}{8}$ " to 1" in width.

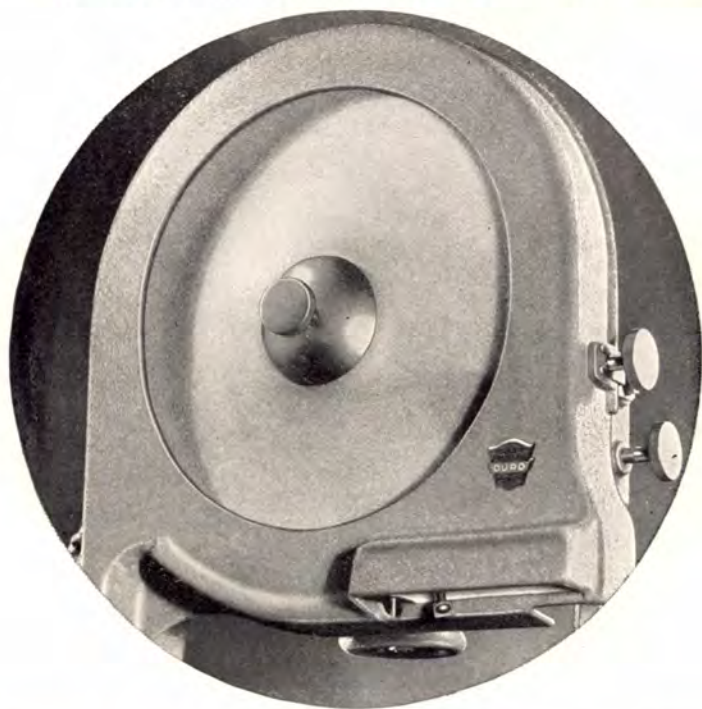
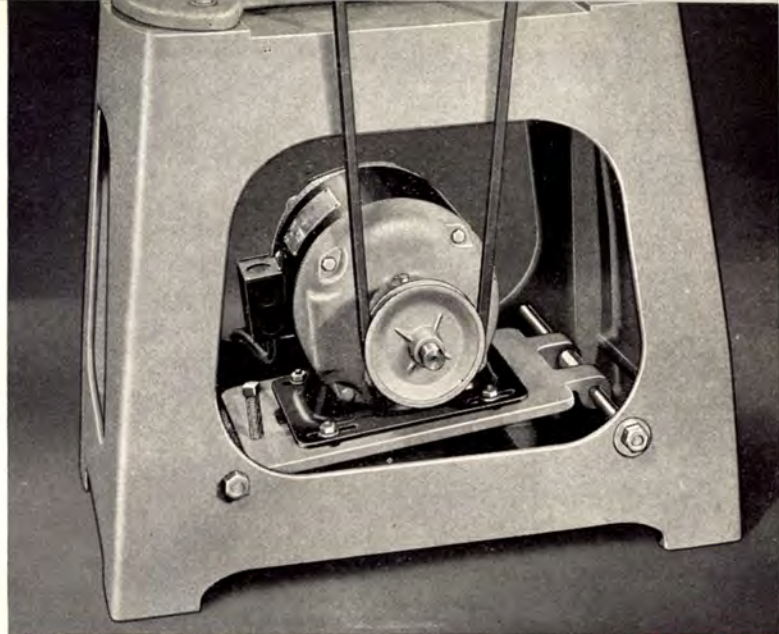
Length of Blade, 111". Blades up to 1" may be used. Capacity with guard closed 15 $\frac{3}{4}$ " x 9 $\frac{3}{8}$ ". The entire Band Saw and base are finished in new corduroy baked enamel with chromium plated fittings.

- 3023 Band Saw only—less motor base, motor belt and pulley.....\$127.50
- 302349—Base only with motor mounting.....\$19.85
- 302375—Mitre gauge only.....\$1.95
- 3024 Band Saw complete as pictured with heavy gray iron base and motor mounting; $\frac{1}{2}$ H.P. G.E. motor, pulley and belt. Shipping weight 465 lbs.....\$185.00
- 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.

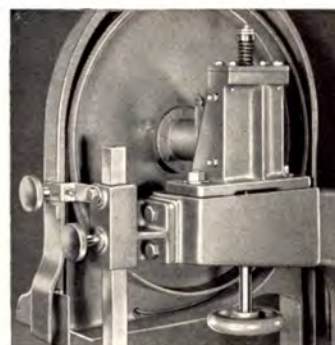
302349 Base & Motor Mounting \$19.85



Easy To Align Blades From Front

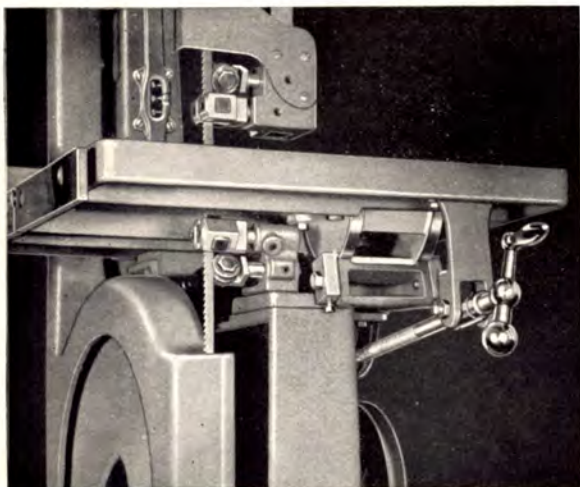
A particularly noteworthy feature of this Band Saw is that all adjustments can be made from the front. The upper wheel has a large knurled hand wheel in the center for adjusting the tilt. And accessible just below the wheel is the large hand wheel which adjusts the blade tension. Even the tilt of the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

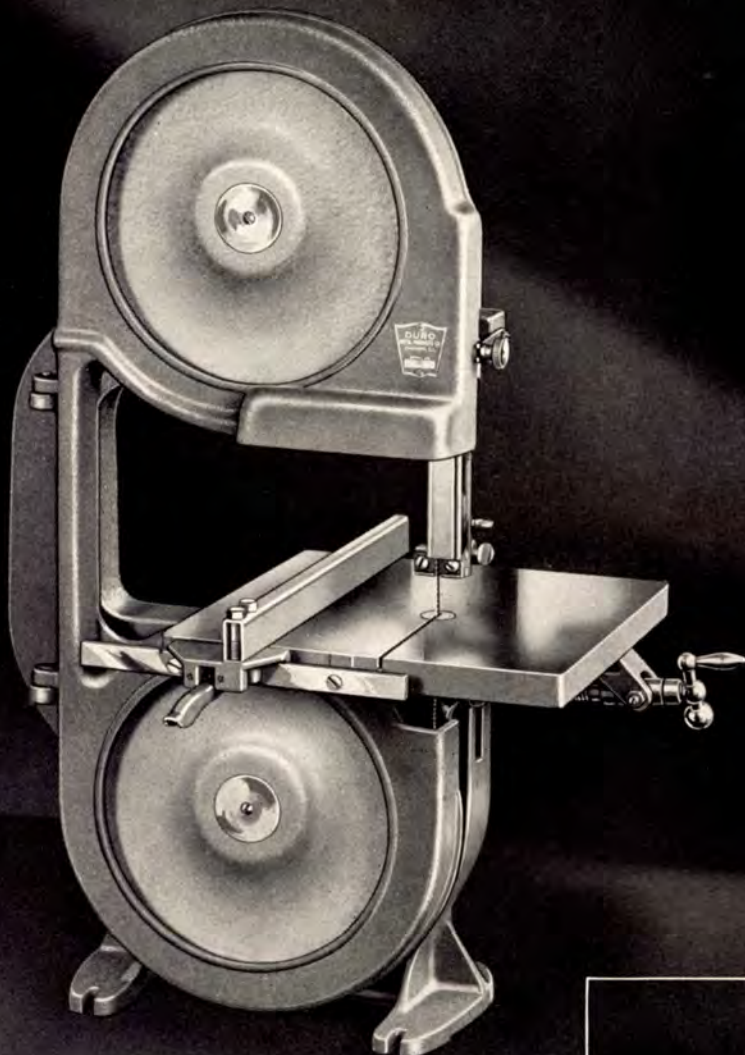


Trunnion and Tilting Device

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, running on Ball Bearings, are concave 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 $\frac{1}{4}$ " 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.



NEW **DURO** **PRODUCTION**

12½-in. BAND SAW

No.
C-3020

\$39⁸⁵

Our Engineers score again with a NEW IMPROVED BAND SAW. More capacity, more weight and many new exclusive features that make it an outstanding Band Saw value. Everything is NEW to make it a finer Band Saw. Note the new, heavy box-type frame to give it the rigidity and smoothness of our 16 in. production Band Saw. Also take notice of the new and larger table that tilts to 45° by a simple turn of the ball crank handle. New improved guides that operate on Ball Bearings. Built-in Electric Light that floods your table with proper light, thus making your work easier and safer.

Like all our tools, this Band Saw is quality built throughout containing only the finest seasoned gray iron castings. All castings are carefully machined to precision accuracy. There is plenty of weight and strength in the frame to give you rigidity, necessary for smooth operation. Vibration, a factor which usually breaks down a Band Saw and causes excessive blade breakage, is virtually eliminated in this new massive constructed frame—the heavy upper wheel assembly and the weight and balance of the wheels all contribute to eliminate vibration. A large 13" by 13" heavy gray iron table, machine ground and polished, tilts to 45° on a sturdy mounted trunnion.

GUARD, BLADES and DISC WHEELS

A safety Saw Guard completely covers the blade except at the cutting point. Guard is one piece heavy gray iron, carefully machined and opens quickly for quick change of blades. Guard is also equipped with built-in Electric Light. Auxiliary guard is attached to upper guide.

Disc wheels are of solid construction, dynamically balanced and dished to bring radial load directly over bearings. This reduces side thrust and eliminates excessive bearing wear. Each wheel is crowned and rubber tired, then balanced and checked for proper alignment. Both upper and lower wheels are equipped with New Departure Self-Sealed Ball Bearings. Saw is equipped with 6½" pulley, ¼" blade, 10 feet of rubber cord, plug and bulb. For average wood-cutting use 2½" pulley on 1750 R.P.M. ½ H.P. Motor; 53" V Belt and No. 3677 steel stand.

See Page 36 for a Complete Line of Motors.

SPECIFICATIONS

Depth capacity with guard closed... 5¾"
Depth capacity with guard opened... 6¼"
Capacity with guard opened... 12½"
Cuts to center of circle... 25"
Size of tilting table... 13" x 13"
Overall dimensions, 33¾" high, 26" wide and 13¾" from front to back.
Shipping weight... 115 lbs.
C-3020—Band Saw less rip fence... \$39.85
302007—Rip Fence and Guide Bar... \$ 1.85

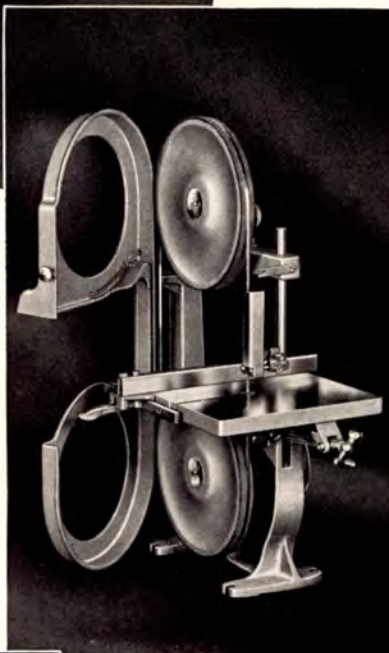
BALL BEARING SAW GUIDES

Our Band Saws positively have the finest guides ever invented. The hardened and ground rollers operate on Ball Bearings. They are concave and set at proper angle to prevent grooving. Both guide and rollers are tempered steel and properly hold in line all sizes of blades. Lower guides are close to table, another desirable feature.



EXTRA HEAVY TRUNNION MOUNTING

A close-up showing how table is mounted on extra heavy trunnion. Also shows the heavy ribbing to strengthen table. Note the lower guide and how close it is to the bottom of the table. This gives you proper support for accurate work at all times.



GUARDS EASILY OPENED

This picture illustrates how guards are quickly and easily opened for quick change of blades, a desirable feature. Simply loosen knurled nut and guard folds back out of way.

This picture also gives you an idea of the weight and construction of the lower part of the frame. Note how the frame encloses the lower wheel, another added safety feature. Crank handle is used for tilting 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

24⁹⁵

AS ILLUSTRATED

Perfect Work from A Practical Machine

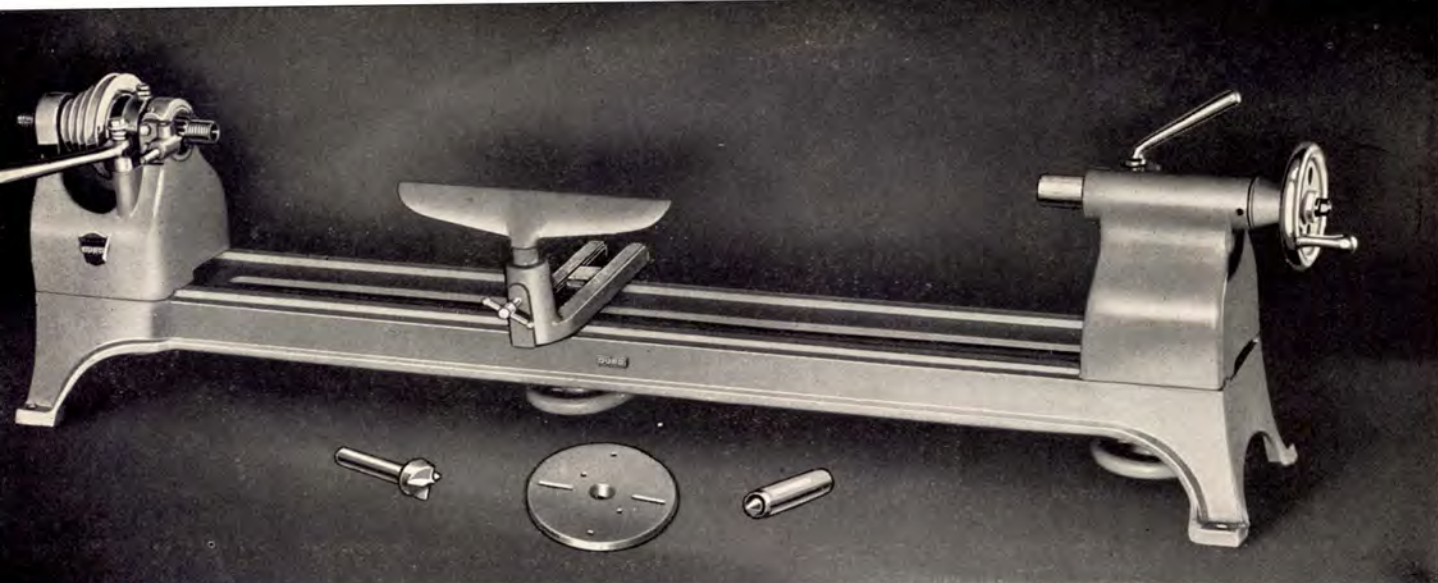
Belt Sanders are strongly recommended by authorities on woodworking as the only practical and proper method of sanding. The Belt Sander, with its cutting speed uniform across the entire cutting face of the belt, gives a smooth finished surface—whereas in disc sanding, with the peripheral speed varying 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. $\frac{1}{8}$ -H.P. Motor; 48-inch belt and No. 3677 Steel stand. Length overall, 22"; Width 15 $\frac{1}{2}$ "; Height overall, 9". See page 30 for extra belts.





DURO - PRODUCTION LATHE

SWINGS 13-Inch STOCK OVER BED

No. 3056

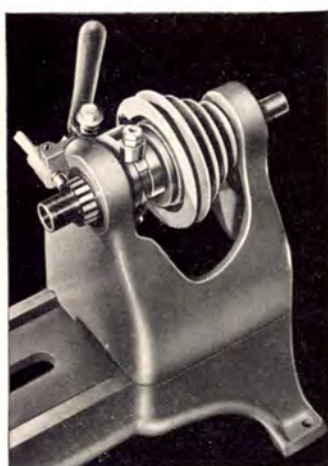
\$49⁷⁵

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 31.



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.



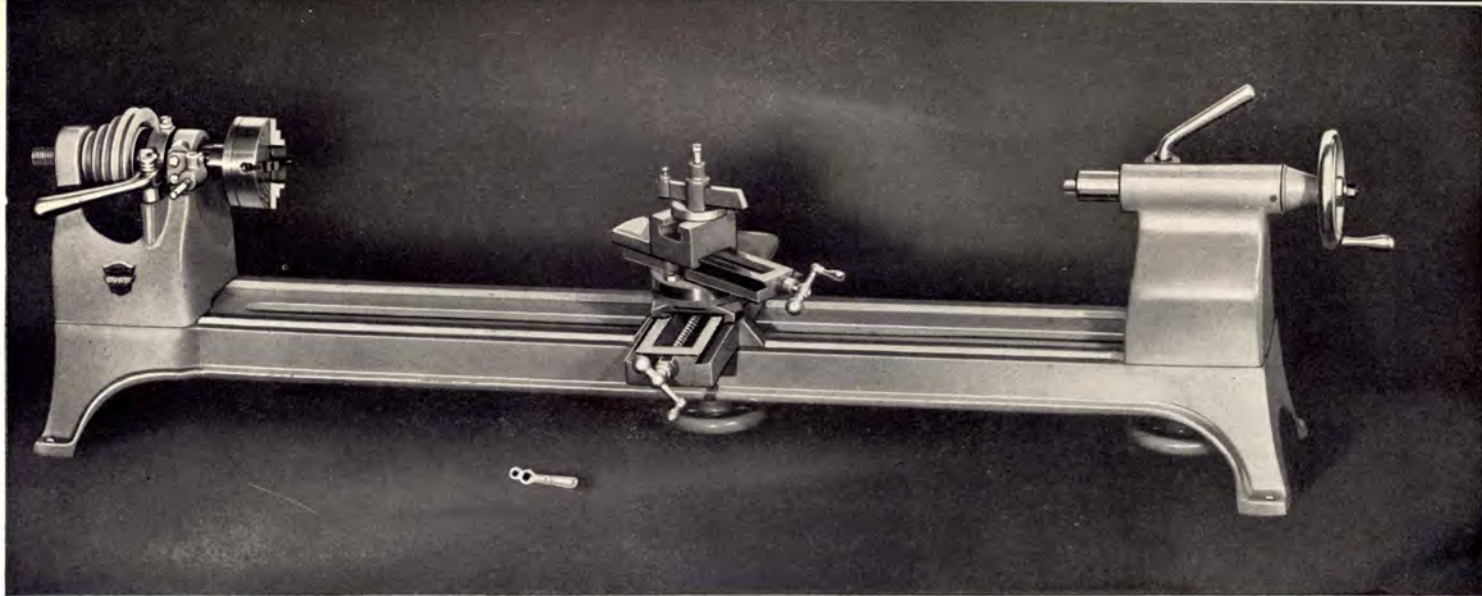
Improved Index

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.

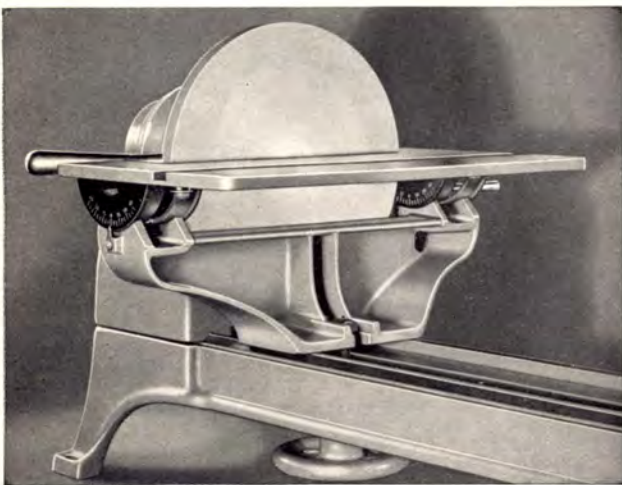
The Headstock is extra heavy and very rigidly built for a lathe of this size. "V" and Flat ways are milled to correspond with the bed ways, assuring positive alignment. It is cored to provide space to drive from below or in back. "V" ways eliminate vibration by providing wedging action where headstock 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.

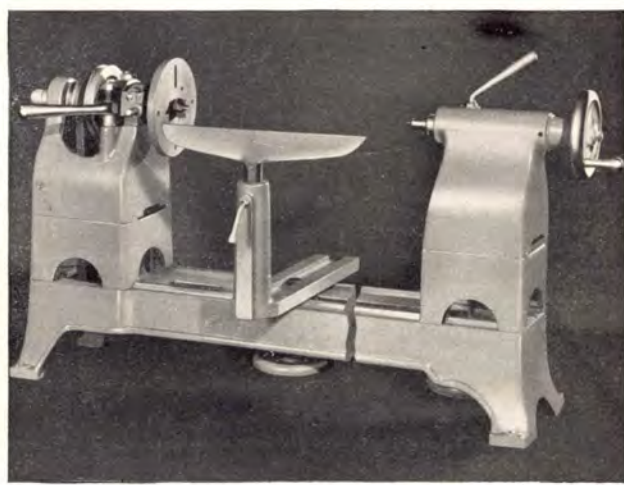
Metal Spinning, a craft daily increasing in popularity, may be successfully accomplished on this Lathe, because of its large capacity, 13" over the Bed.



Sanding Disc With Adjustable Table

Quickly attached to lathe. Heavy gray iron with 10" disc and large $10" \times 16"$ 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.

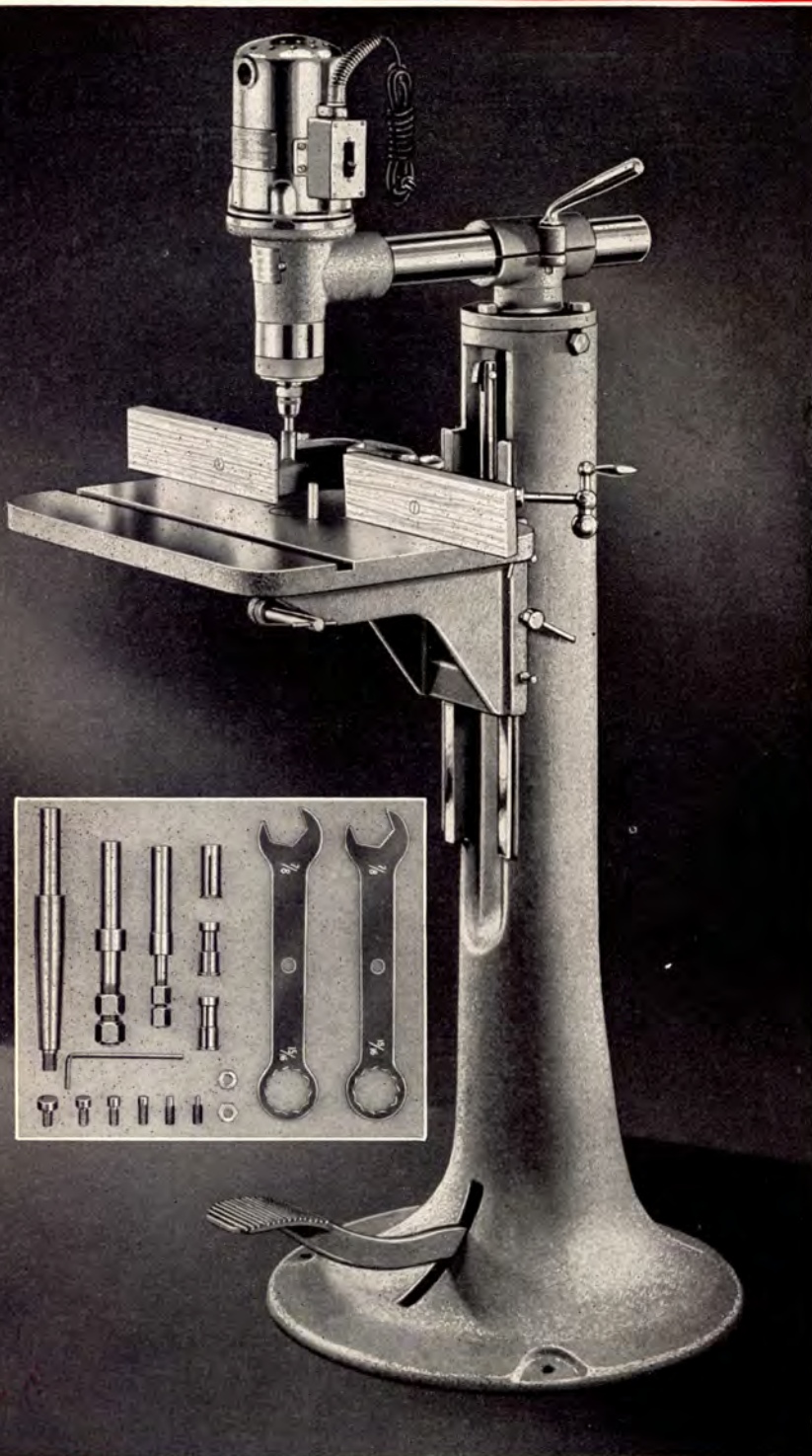
No. 305667—each \$12.50
No. 3265—10" Sand paper; fine, medium or coarse, each 0.15



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 \$7.95

NEW DURO-HIGH ROUTER-C



No. 3100

\$137⁵⁰

COMPLETE AS PICTURED
Less Cutters

- **SPEED**—Spindle turns approximately 20,000 R.P.M.
- **POWER**—The General Electric Universal motor develops over 1 H.P.
- **BEARINGS**—Armature mounted on 4 heavy duty Sealed, Precision Ball-Bearings.

A newer, bigger and heavier combination router, carver and shaper, built to meet factory requirements. New improved motor with spindle connected to the armature shaft—dynamically and statically balanced with spindle and armature. This method of construction greatly increases the life of the motor, through the fact that a flexible coupling absorbs any vibration that may be on the spindle while routing, carving or shaping. All vibration eliminated from the motor through four, heavy-duty Sealed New Departure Precision Ball-Bearings. This new tool is extremely smooth and powerful and handles all work to its extreme capacity without effort.

This combination machine has had a tremendous success since it was first put on the market and now with its many improvements incorporated it has still a greater value to those making furniture, either in the production field or the expert craftsman. The cost of individual machines to accomplish the same work with the same degree of efficiency has, in the past been beyond the means of the small production shop or the home-craftsman. Operating cost has also been a serious item to the larger manufacturer. Our new 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. It is without a doubt the most accurate and fastest machine of its kind you have ever witnessed, regardless of name or price.

DESIGN AND CONSTRUCTION

Specially designed General Electric Motor operates on AC or DC current, 60 cycles or less, and develops over 1 H.P. Motor parts are statically and dynamically balanced and designed to run continuously without over-heating. The motor is mounted on the end of a 2 inch ground tube which may be swiveled in any direction to meet the operator's convenience. The spindle is hollow and the chuck that holds all adaptors is immediately adjacent to the front bearing. All shanks enter the hollow spindle. The chuck is positive and easily released by wrenches supplied.

The main frame and table are made of high quality gray iron. Each and every part is carefully and accurately machined to precision limits. Table is machined and surface ground and raises and lowers on adjustable, machined dovetailed ways. Convenient stops are located on the left hand side which controls 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 all necessary adaptors, routing pins, wrenches, etc. as pictured in the illustration.

GENERAL SPECIFICATIONS

Spindle R.P.M. approximately.....	20,000.
Length of adjustable arm.....	14".
Size of table.....	18 x 14".
Overall height.....	48".
Overall width.....	20 1/2".
Shipping weight.....	225 lbs.
3100.....	\$137.50
309127 Mitre Gauge only.....	1.95

-SPEED-PRODUCTION CARVER-SHAPER

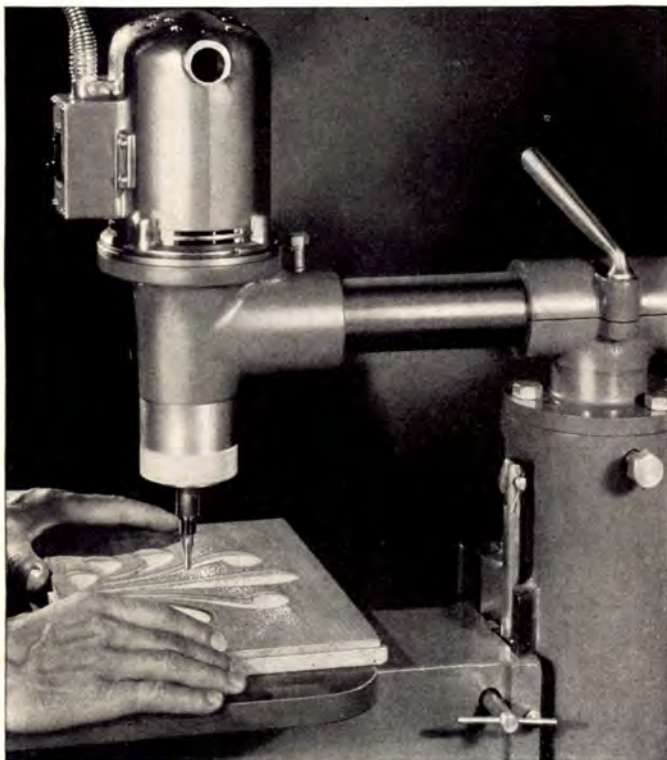
Shaping

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.

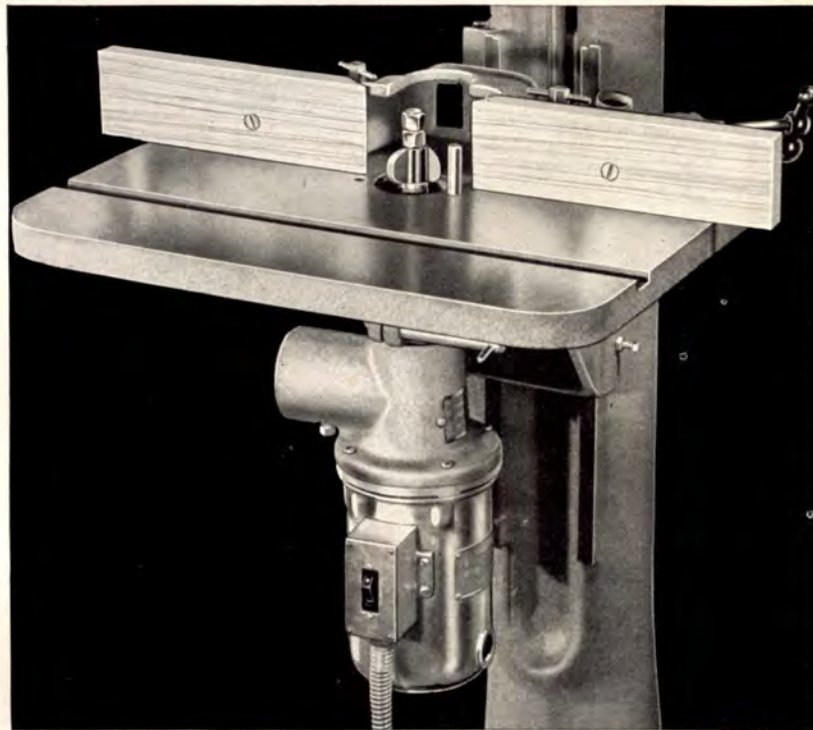
Adaptors are inserted in chuck and may be easily removed.

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.



Spindle 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 32 for cutters.

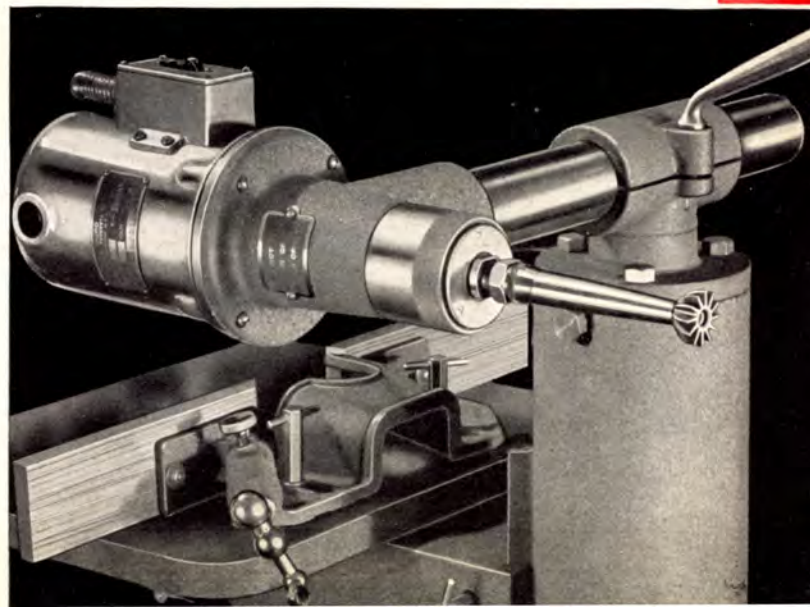


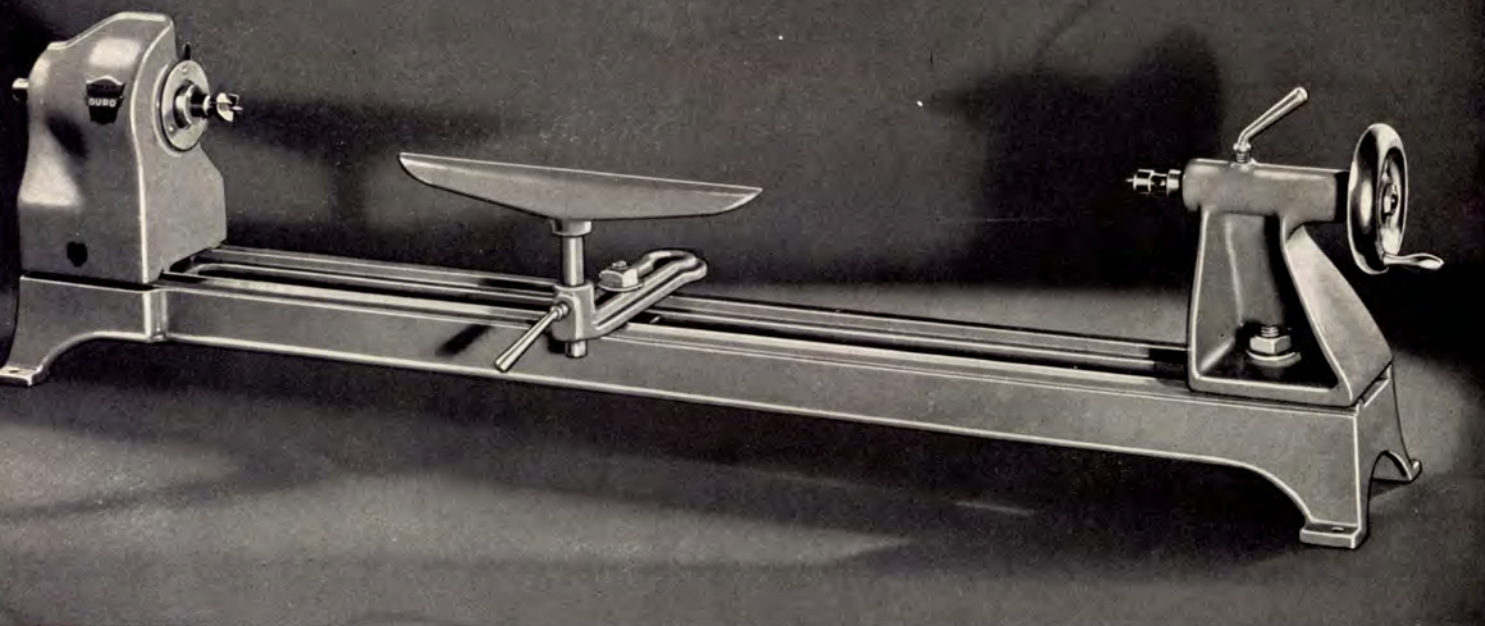
Routing

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.





DURO

HEAVY DUTY LATHE

10-Inch Swing

**31 Inches Between
Centers**

No. B-3053

\$18⁹⁵

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 31. 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

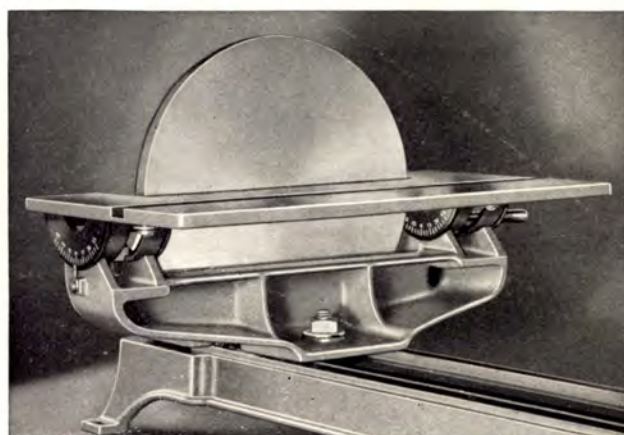
One of the finest, safest and most modern head stocks ever built into a lathe of this size. Guard protects the operator from the front of the lathe yet leaves plenty of room to change belts from one speed to another. Belt may be driven from back or below. Extra large New Departure Sealed Ball Bearing 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 turntrons and is adjustable to tilt 45° in one direction and 15° in other direction. Shipping weight, 26 lbs. 305367—Each \$12.50 3265—10" Sand paper; fine, medium or coarse, each 15

New **DURO** PRODUCTION

SPINDLE SHAPER

No. 3091

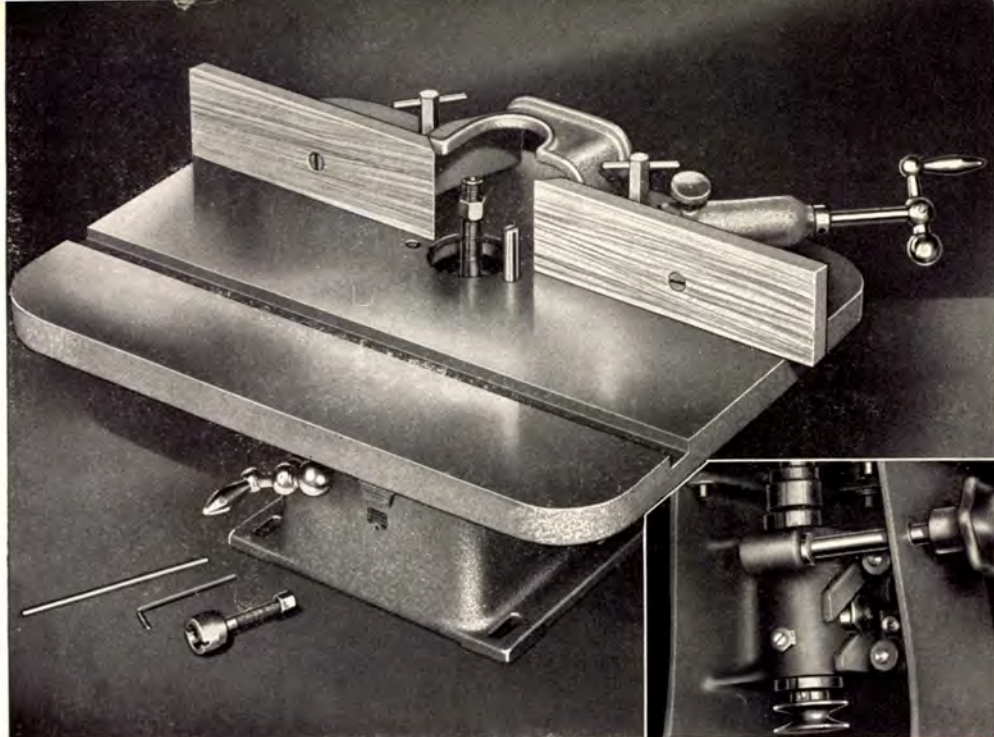
\$24⁹⁵

SPINDLE ASSEMBLY

The mounting of the spindle as pictured at right 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 $1\frac{5}{8}$ " 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.

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 every close and accurate adjustment may be made. One complete turn of the conveniently located ball crank handle raises the spindle only $\frac{1}{16}$ 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.



An excellent quality, smooth running ball-bearing shaper with generous sized slotted 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

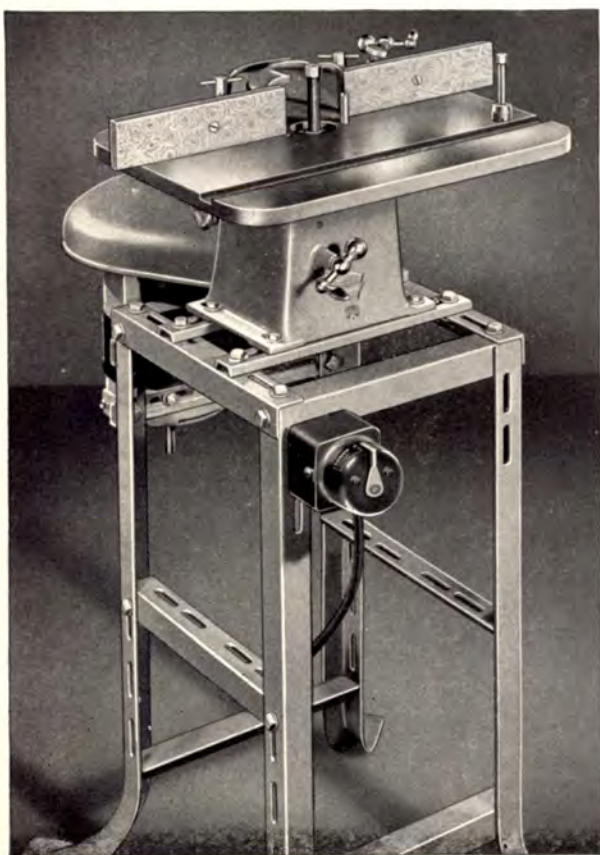
The heavy table, ribbed for greater strength, is cast from high quality close grained gray iron, properly seasoned before machining to prevent warpage. The table, 14 x 18 inches, is milled and machine ground to a smooth accurate finish. Table is also slotted for mitre gauge. A heavy substantial gray 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. See page 32 for cutters.

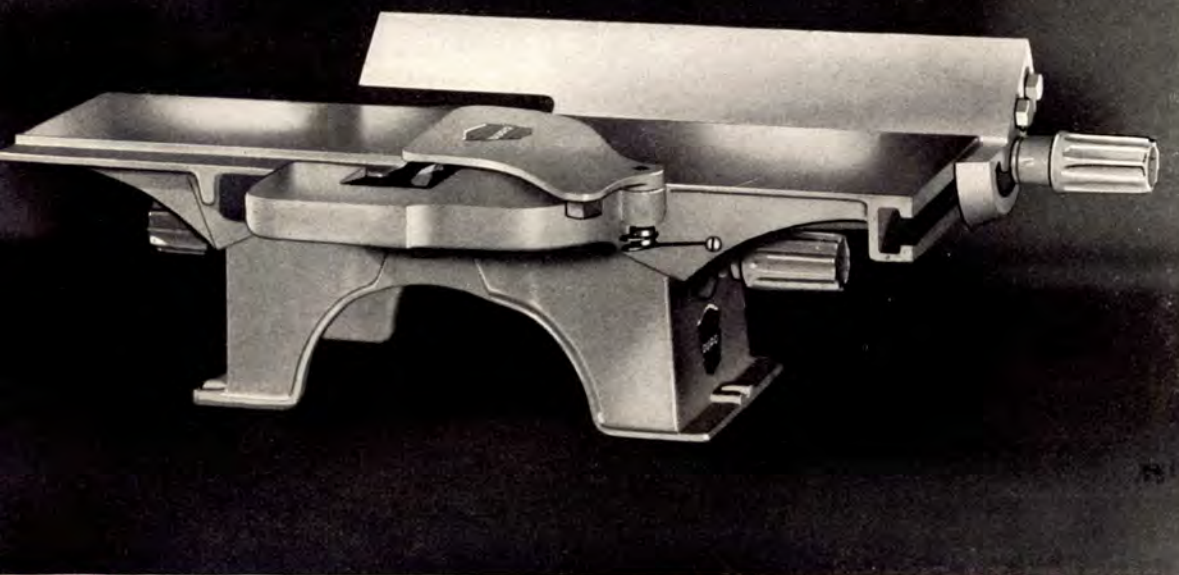
SPECIFICATIONS

Spindle runs on New Departure, Permanently Sealed Ball-Bearings.
Actual Table Size..... 14" x 18".
Overall Dimensions, 19 $\frac{1}{2}$ " wide; 11" high and 18" from front to back of table.
Length of Fence..... 19 $\frac{1}{2}$ ".
Diameter of Quill..... 1 $\frac{5}{8}$ ".
Spindle Travel, up and down..... $\frac{3}{4}$ ".
Spindle Capacity..... $\frac{5}{16}$ " or $\frac{1}{2}$ ".
Use 8 in. motor pulley or $\frac{1}{3}$ H.P. 1750 R.P.M. Motor; 37 in. V belt;
No. 3676 Steel Stand.
Shipping weight..... 48 lbs.
3091 Shaper only with fence; two adaptors and starting pin..... \$24.95
309030 Cast aluminum belt guard..... \$4.50
3092—Shaper complete as illustrated at left, including steel Stand; $\frac{1}{3}$ H.P., G.E. Ball-Bearing Motor; Motor pulley, belt; belt guard and reversing switch. Shipping weight, 120 lbs..... \$56.90
309140—Mitre gauge only..... \$1.95

New 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 $\frac{3}{4}$ H. P. capacity. Repulsion-Induction motors are reversed by shifting the brushes. Ship. wt. 5 lbs. 3760..... \$2.95





No. 3030

\$15⁴⁵

AS ILLUSTRATED

**Safety type three
blade cutter head**

**New lever lock
parallels tables**

DURO

HEAVY DUTY JOINTER



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.

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.



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.

NEW **DURO**

9½-Inch BAND SAW

A New low priced Band Saw with full 9½ inches capacity. Newly designed and heavier constructed guard—new bronze bearing guides with new safety cover over blade. This new Band Saw has features of larger factory Band Saws and will provide smooth, true cuts and lasting, dependable service at a minimum up-keep cost. The ideal size for the Home Craftsman or shop requiring only a smaller size Saw.

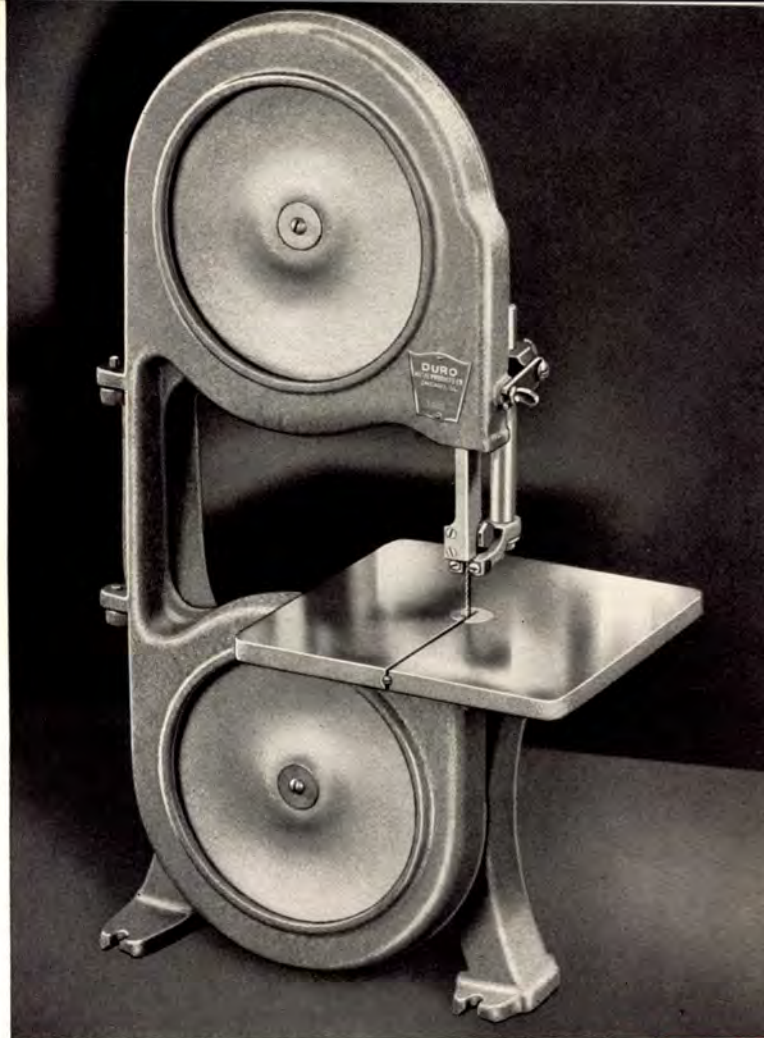
The deep channel frame is cast in one piece of fine quality close grained gray iron. Semi-box type construction and heavy cross ribs prevent warpage and consequent misalignment of wheels. All machining is held to very close tolerances to produce finished products of the highest standards.

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. 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. Upper bearings are of the best quality self-lubricating bronze. Note the guard. It is cast in one piece and covers the wheels 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—a very desirable feature. There is fully 9½ inches from blade to saw guard. Standard equipment consists of the saw with guard, 4-inch pulley and ¼-inch blade. Other size blades listed on page 30. Use 2" Pulley on 1750 R.P.M. motor to obtain proper speed in wood, a slower speed in soft metals.

GENERAL SPECIFICATIONS

Capacity with guard closed.....	9½"
Capacity with guard opened.....	9½"
Depth capacity, guard closed.....	4½"
Depth capacity, guard opened.....	4¾"
Size of tilting table.....	9" x 9"
Overall dimensions, 26¼" high, 16½" wide and 9¾" from front to back.	
Shipping weight.....	50 lbs.

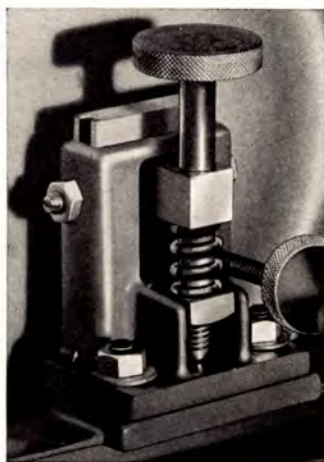


No. 3025 \$18⁹⁵



ROLLER SAW GUIDE

New, bronze Bearing saw guides are 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. Aluminum disc in the center of table prevents damage to blades. Guide is raised and lowered to take care of various thicknesses of wood.



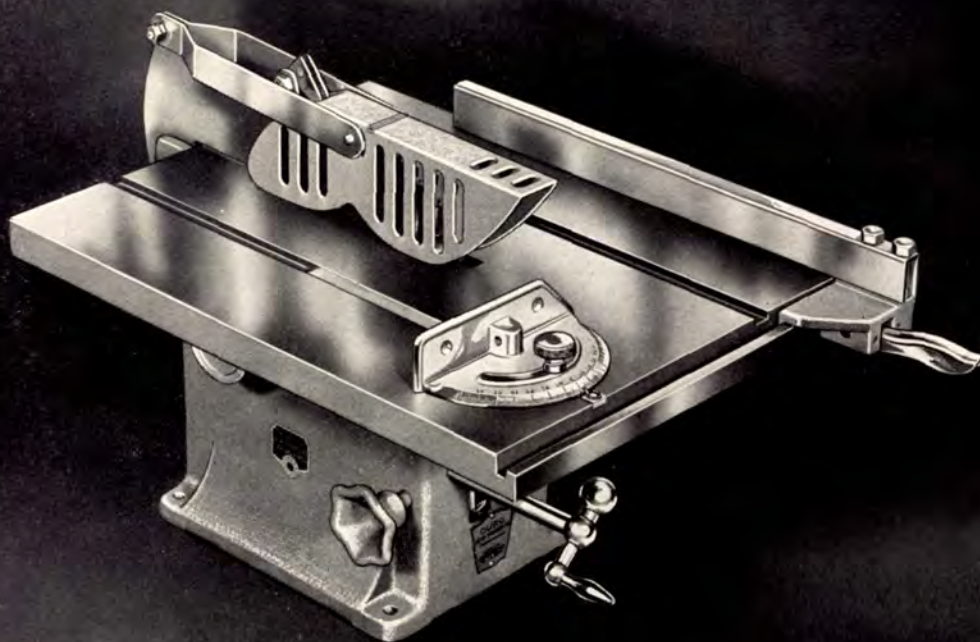
BLADE ADJUSTMENT

A very accurate and positive method for 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 12½" 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. 3012

\$29⁸⁵

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.

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.

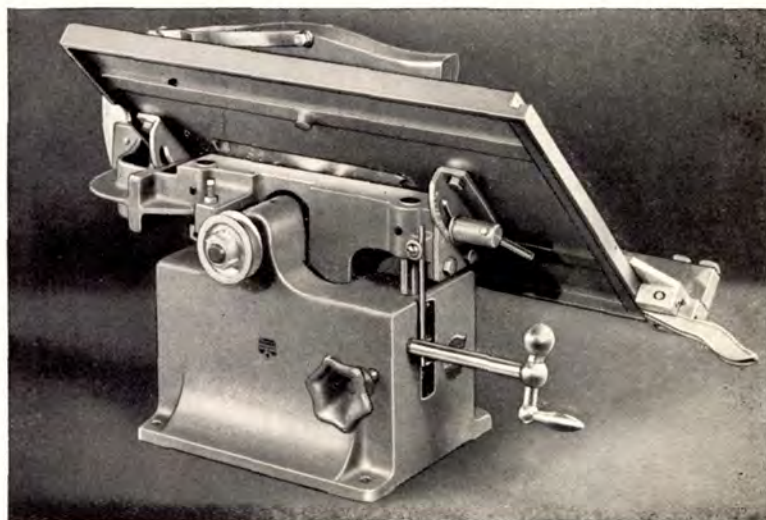
Table Tilts to 45 Degrees

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.



NEW **DURO** 8-In. Table Saw

No. 3011 **\$15⁴⁵**

A new, inexpensive 8 inch table saw for those who want a saw of larger capacity than our 7 inch saw listed below, yet moderately priced.

Sturdy, compact and embodies fine quality materials and workmanship. Seasoned gray iron castings, substantial in weight to give you rigidity and smoothness. The table raises and lowers by the simple turning of the large star hand wheel. Table is machine ground and polished. Has removable throat for dado head. Extra wide trunnions at front and rear of table travel in saddles that are part of the table bracket. Adjustable, steel rip fence lines up accurately with saw blade. Ground and polished spindle is rigidly supported and operates on self-lubricating bronze bearings.

New improved clear vision guard, splitter, mitre gauge and 8 inch combination chrome alloy steel saw blade are included.

SPECIFICATIONS

8 in. combination cross-cut and rip blade with $2\frac{3}{8}$ in. capacity.

Overall dimensions, $16\frac{1}{4}$ " long, $12\frac{1}{4}$ " wide and 14" high.

Actual table size 11" x 15".

Dado head capacity $1\frac{3}{16}$ " x 5".

Use 4 in. pulley on 1750 R.P.M. $\frac{1}{3}$ H.P. Motor.

Shipping weight 42 lbs.

Price including guard and splitter \$15.45

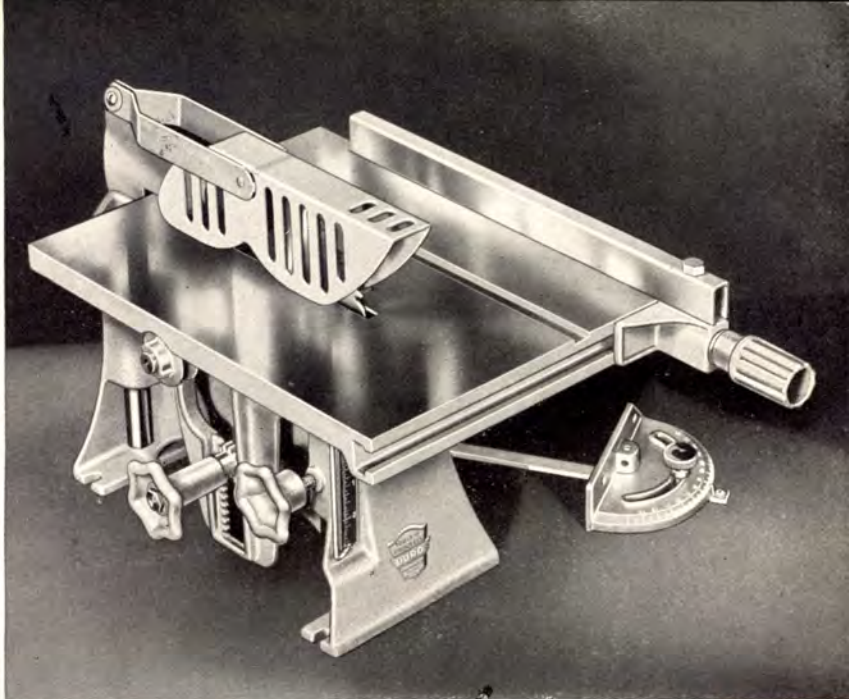
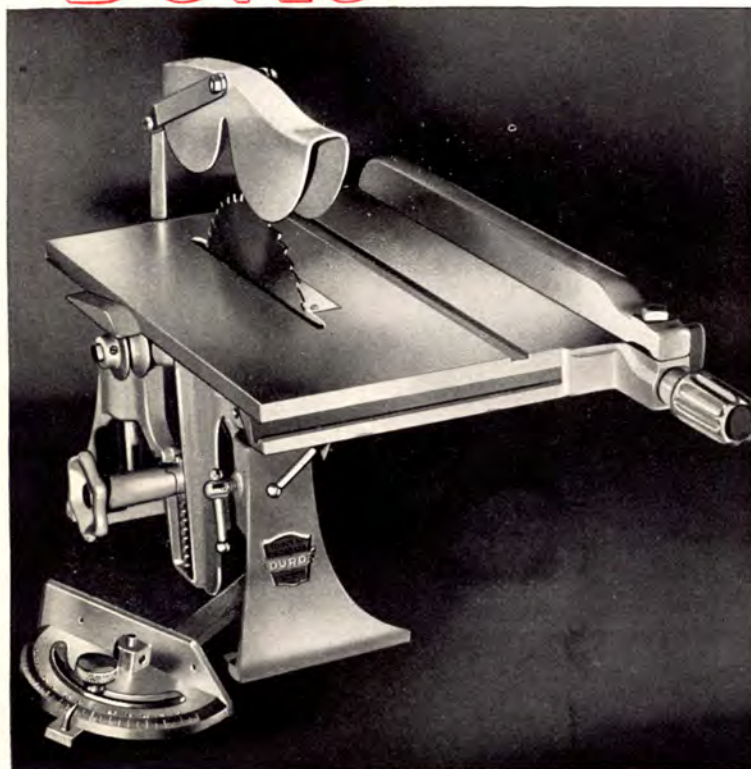


Table Tilts to 45 Degrees

Note the extra heavy base and the sturdy mounting of the table. Wide trunnions at front and rear, travel in saddles which are part of the bracket. Table tilts accurately and smoothly to 45 degrees. Table raises, (not the blade) by means of a sturdy geared hand wheel. Heavy steel posts are built into the frame at both front and rear, giving rigid support to the table at all times.

DURO 7-Inch TABLE SAW



Similar in design and construction to the above saw but with 7" saw blade with a capacity of $2\frac{1}{4}$ inches. 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. Table is of high quality gray iron, machine ground. Only a very narrow slot is required for the saw blade as the table tilts on its own axis. Removable throat for dado head.

Sturdy steel rip fence quickly released by hand knob. Adjustable, it is set to line up accurately with the saw blade. Mitre gauge with accurate graduation up to 60 degrees 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.

SPECIFICATIONS

7 inch combination cross-cut and rip blade with $2\frac{1}{4}$ inch capacity.

Overall dimensions, $15\frac{1}{4}$ " long, $12\frac{1}{4}$ " wide and $13\frac{1}{2}$ " high.

Actual table size 10" x 14".

Dado head capacity $\frac{5}{8}$ " x 4".

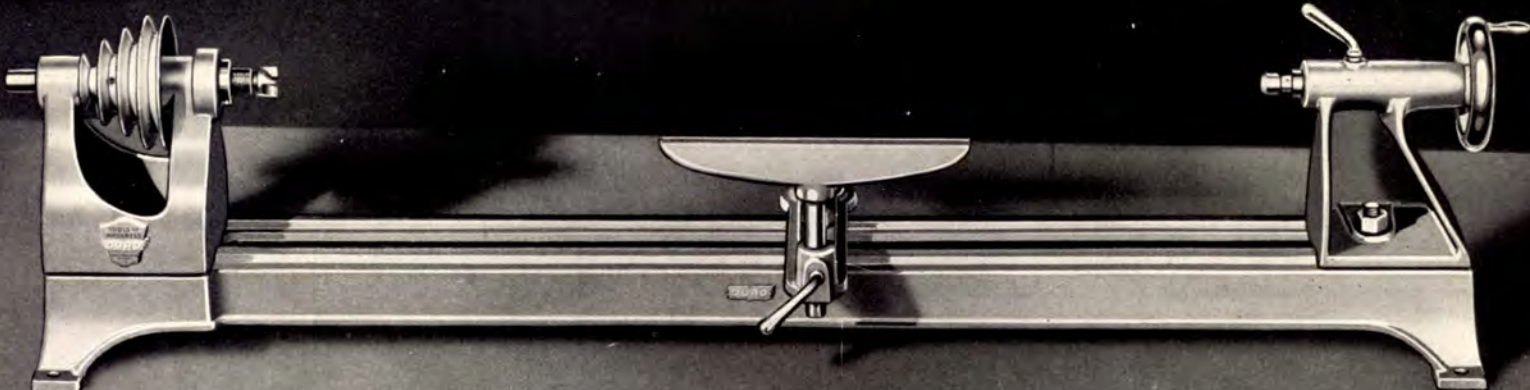
Use 4 in. pulley on 1750 R.P.M.

$\frac{1}{3}$ H.P. Motor.

Shipping weight 37 lbs.

Price including guard and splitter . . .

No. 3010
\$13.50



NEW **DURO** BIG VALUE LATHE

10-Inch Swing
31 Inches Between
Centers

No. A-3053

\$13⁹⁵

AS ILLUSTRATED

A new lathe specially designed for those who want a lathe of good capacity at a low price. Here is a tool built to the same exacting standards as our heavy duty and production Lathes, with workmanship and quality that never has been attempted before in a moderately priced lathe. The design of the bed, head and tail stock, results in affording more strength and value per pound ever achieved in a lathe at this low price.

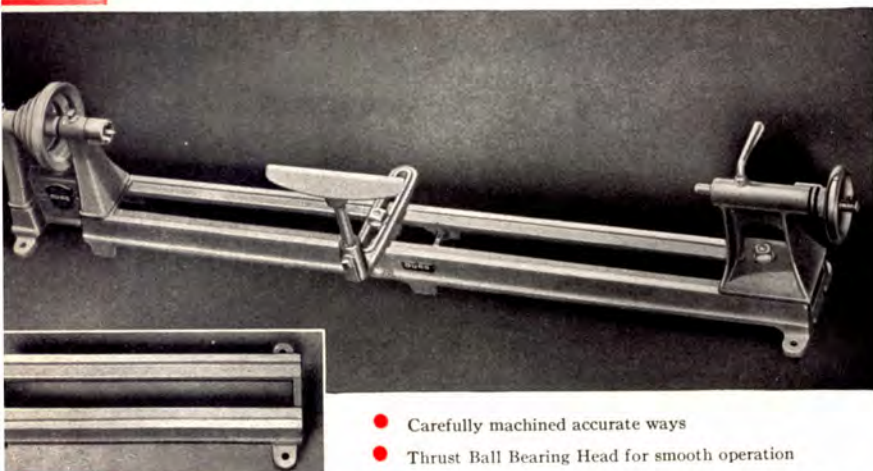
The flat way bed, head stock and tail stock are all made from properly seasoned gray iron. Every part is carefully machined to accurate limits. The bed is unusually heavy, is well ribbed and braced to give you smoothness at all speeds. There is ample capacity to handle 10 inch material over the lathe bed and pieces of full 31 inches long between centers. The bed legs which are an integral part of the bed casting provide clearance under the bed for easy removal of chips.

The head stock has a balanced 4-step pulley operating on solidly mounted, large, self-lubricating bronze bearings. Fitted with ball bearings to take up end thrust. Polished steel spindle, $\frac{3}{4}$ " in diameter, has $\frac{3}{8}$ " hole drilled through it. The front end of the spindle is reamed to take all tools with #1 morse taper. Tail stock is substantially built with a high quality, carefully machined steel quill. Equipped with #1 morse taper. Can be locked in any position. Lathe includes spur center, cup center, tool rest, tool rest holder and wrench.

SPECIFICATIONS

Capacity	.....	31 x 10"
Overall length, 44 $\frac{1}{4}$ "; width, 7 $\frac{3}{4}$ "; height, 10 $\frac{1}{2}$"	.....	
Shipping weight	.....	60 lbs.
A-3053	.....	\$13.95

DURO 27-Inch LATHE



- Carefully machined accurate ways
- Thrust Ball Bearing Head for smooth operation

An excellent quality low priced Lathe that weighs full 22 pounds uncrated. Plenty of weight to give you rigidity and smoothness with vibration and chatter reduced to a minimum.

Full 27 inches between centers with 8 inch swing over the bed. Note the extra heavy one-piece bed with carefully machined ways. The bed, head stock and tail stock are all made from seasoned gray iron, carefully machined and fitted. Sturdy $\frac{1}{2}$ inch head stock spindle of ground and polished steel runs on four bronze bearings, with a ball bearing to take up end thrust.

Outfit comes complete with spur and cup centers, 6" tool rest, holder and wrench.

SPECIFICATIONS

Capacity	.....	27 x 8"
Overall length, 39"; width, 5"; height, 8"	.....	
Shipping weight	.....	27 lbs
3050	.....	\$6.95
305008	.....	12" Bed Extension. For increasing lathe capacity to 39" between centers.
	.....	Carefully squared and machined
	.....	Use 4" pulley #305009 and either a $\frac{1}{4}$ or $\frac{1}{3}$ H.P. Motor

DURO

12 INCH

JIG

SAW

No. 3000

\$6²⁵



A low priced Jig Saw that operates with the smoothness and quietness of many large Scroll Saws. Sturdy, well designed with torsion type spring action. One-piece frame of seasoned gray iron, heavily ribbed to insure rigidity. Upper and lower shafts are of ground and polished steel, with heat treated clamps for holding blades—adjustable with hollow head cap screws. The mechanism is actuated by an eccentric cam, operating the cross head in conjunction with the torsion type spring. The 8" table tilts to 45° on graduated trunnion.

SPECIFICATIONS

Capacity	.....	12"
Cuts to center of circle	.....	24"
Overall height, 16"; length, 18"; width, 8 $\frac{1}{2}$"	.....	
Actual table size	.....	8"
Length blade	.....	5"
Shipping weight	.....	20 lbs.
3000	.....	\$6.25

We recommend 1 $\frac{1}{2}$ " pulley on a 1750 R.P.M. motor for proper speed.

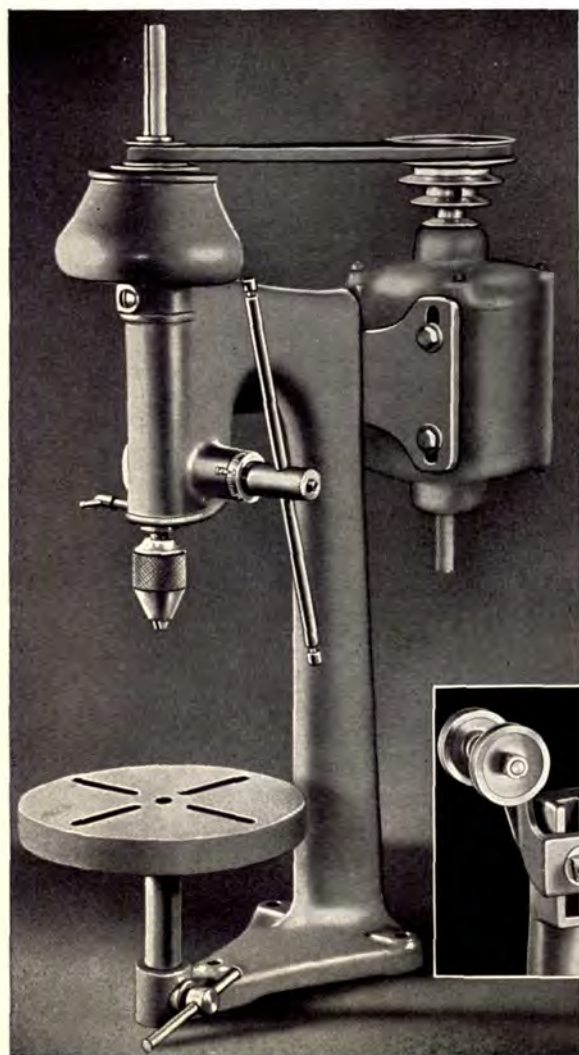
DURO HEAVY DUTY DRILL PRESS

A-3080
\$32⁷⁵
LESS MOTOR

Specially designed and priced to meet the requirements of those who need a drill press of greater versatility than the Standard Duty press listed below. It is quality built throughout and has the necessary characteristics to perform precision work for a moderate investment. This drill press is capable of shaping, routing, mortising and other production work. Made from properly seasoned gray iron castings, carefully machined to precision limits. Tables are surface ground and polished. Self-lubricating bronze bearings take the radial load and ball bearings take thrust load. Like our Production drill presses, one spindle does all operations—no need to buy extra spindles—three inexpensive adaptors enable you to do all operations. Has depth adjustment with over-size quill graduated in $\frac{1}{8}$ inches from 0 to $4\frac{1}{2}$ ". Positive micrometer adjustments provide 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. Price includes motor pulley and V belt.

SPECIFICATIONS

Capacity of Jacobs Keyed Chuck.....	$\frac{1}{2}$ "
Number of speeds.....	13
Range of speed, R.P.M.....	760-4000
Distance of spindle travel.....	$4\frac{1}{2}$ "
Drills to center of circle.....	.14"
Maximum distance from base to jaws.....	.17"
Overall width.....	$9\frac{1}{2}$ "
Overall height.....	.40"
Size of upper table.....	8" x 8"
Size of base.....	$9\frac{1}{4}$ x 15"
Diameter of ground steel column.....	.2"
Shipping weight.....	.80 lbs.
A3080—Price with Motor Pulley and Belt, less motor.....	\$32.75



DURO STANDARD DUTY DRILL PRESS

No. 3082
LESS
MOTOR \$15⁴⁵

No. 3083
WITH
JACOBS
CHUCK \$19⁹⁵

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. 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.

The spindle 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.

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 thirteen speeds is secured. The idler pulley attachment as shown in small picture is used when driving from a lineshaft or jackshaft. Has $2\frac{1}{2}$ in. V pulleys with self-lubricating bronze bearings. No additional charge when furnished in place of motor bracket with original machine.

308008.....\$2.25

SPECIFICATIONS

Capacity of chuck.....	$\frac{1}{2}$ "
Range of Speeds.....	760-4000
Distance of spindle travel.....	.4"
Drills to center of circle.....	.12"
Diameter of table.....	8"
Maximum distance from table to jaws.....	$7\frac{3}{4}$ "
Overall height.....	.26"
Shipping weight.....	.40 lbs.



New **DURO** Portable HEAVY DUTY FLEXIBLE SHAFT

No. 3074

\$14.75

As Pictured Less Motor
and Shaft

No. 3075

\$43.95

As Pictured with $\frac{1}{8}$ H. P.
Motor and Shaft

A new and improved design Flexible Shaft unit with a wide range of Speeds and usefulness. It is ideal for the mechanic or shop requiring a compact and portable unit. Sturdy and well balanced it is unusually flexible. The motor mounting swivels, the head casting, mounted on the solid steel post revolves on a ball bearing and the unit is mounted on ball bearing castors making it possible to use in the most difficult places.

Note the extra heavy constructed frame and base. Large 14 in. tool pan. Sturdy iron legs. Fitted with ball bearing casters. Head swivels on ball bearings and can be moved, easily and quietly to any desired position. Motor mounting also swivels to give you more flexibility. Fitted with 4-step Jack Shaft to give you a speed range of 690 to 4000 R.P.M.

The Flexible Shaft unit has many uses, such as polishing, grinding, drilling, buffing, carbon removing, body work etc. Indispensable to any garage or work shop.

Overall height 44 in. Leg spread 21 in.

No. 3074—unit as pictured including 4-step pulleys and belt, less motor and flexible shaft.

Shipping weight 45 lbs. **\$14.75**

No. 3075—unit as pictured complete with 4-step pulley and belt, including heavy duty ball bearing flexible shaft and $\frac{1}{8}$ H.P. GE Ball-Bearing motor, built-in switch and 10 ft. rubber cord and plug. Shipping weight 95 lbs. **\$43.95**

- Heavy Duty Ball-Bearing Shaft.
- 4 Speeds, 690 to 4000 R. P. M.
- Motor Head swivels in any direction.

DURO BALL-BEARING FLEXIBLE SHAFT

48-Inch Flexible Shaft

Quality materials, careful design and workmanship make this a 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, $\frac{3}{16}$ in. diameter guaranteed not to come unwound 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 adaptor, washers, 3-jaw $\frac{1}{4}$ inch chuck and auxiliary handle. Shipping weight 5 pounds.

No. 3070—Complete as illustrated. \$6.00

No. 307033—Flexible Shaft Extension. Length 43 inches. For increasing length of flexible shaft to 95 inches overall. Shipping weight 3 lbs. \$3.50

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 $\frac{3}{8}$ 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.

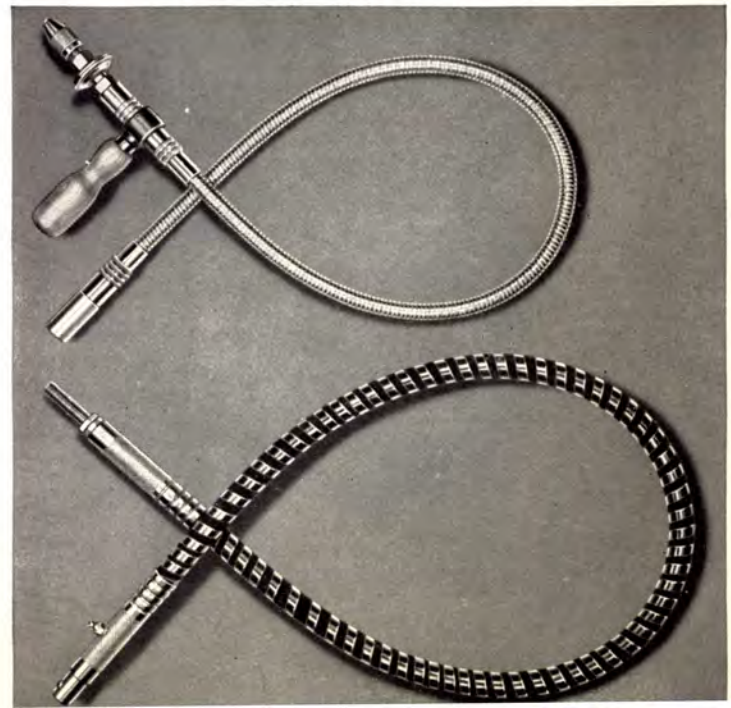
Heavy $\frac{1}{2}$ -inch, 24-thread spindle to fit both $\frac{1}{4}$ and $\frac{1}{2}$ inch chucks, as well as other standard accessories. The overall length is 5 feet. Shipping weight 12 lbs.

No. 3073—Flexible Shaft \$14.25

307333—5 ft. Flexible Shaft extension for above \$14.25

No. 3264—6 x $\frac{1}{2}$ " flexible sanding disc, threaded to fit above shaft. \$1.60

No. 3263—Extra sandpaper for above disc. Choice of fine, medium or coarse, each. \$0.10



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 30.

3051.....\$11.95



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. Spindle, rubber sleeve, wood roller and one sheet of garnet paper.

No. 3062.....\$1.95

No. 3260 Special garnet paper for above, size 9x12 inches . . . fine, medium and coarse. State grade wanted. Per dozen. . . \$0.60

BENCH SANDER

An inexpensive machine, built to our usual high quality standards. 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 tension on belt.

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 30 for other grain belts. Length overall 13½ inches. Complete with 2-inch V-pulley. Run at 1200 R.P.M. Shipping weight 12 lbs.

No. 3060.....\$6.15



NEW DURO ELECTRIC GRINDER

Another New tool offered to the Craftsman as a helpful accessory for the work shop. This useful little grinder has 101 uses in the home workshop, pattern shop, manual training school and many other places. Grinder used for drilling, grinding, polishing, carving, engravings, routing, sanding etc. in all types of materials, such as metals, bakelite, wood, glass, bone, horn, stone. The ideal tool for model builders and Craftsmen, for decorating different projects and finishing and cleaning up hard-to-get-at places.

No. 3048

\$10⁰⁰

This new Electric Grinder has a speed of 12,000 R.P.M. and is easy to use. Its actual weight is only 14 oz. Plug in any light socket, either AC or DC 110 V. We offer a selection of accessories listed below. It is a quality built tool throughout. The housing is of black bakelite. Overall length 5½ in. Finely constructed electric motor designed to run quiet, smooth, and free from vibration. Well ventilated for cooling purposes. Special constructed bronze bearings. Carefully machined, tight gripping sleeve chuck. Furnished with two collets; sizes 0 to ⅛" and ⅛" to ⅜". Unusual value at this low price. 6 ft. of rubber cord. Built-in electric toggle switch. Shipping weight 1 lb.

No. 3048 Grinder only, less accessories.....\$10.00



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 $\frac{1}{2}$ -inch bore. Each.....\$1.45
3457A—18 gauge. Diameter 7-inches with $\frac{1}{2}$ -inch bore. Each.....\$1.65
3458A—18 gauge. Diameter 8-inches with $\frac{3}{8}$ -inch bore. Each.....\$1.85
3458X—Same dimensions and teeth as 3458C, but not hollow ground. Each.....\$1.85

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 $\frac{1}{2}$ -inch size bore. Each.....\$0.50
3456B—18 gauge. Diameter 6-inches with $\frac{1}{2}$ -inch size bore. Each.....\$1.45
3457B—18 gauge. Diameter 7-inches with $\frac{1}{2}$ -inch size bore. Each.....\$1.65
3458B—18 gauge. Diameter 8-inches with $\frac{3}{8}$ -inch size bore. Each.....\$1.85

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 $\frac{1}{2}$ -inch size bore. Each.....\$3.50
3457C—15-18 gauge. Diameter 7-inches with $\frac{1}{2}$ -inch size bore. Each.....\$4.00
3458C—15-18 gauge. Diameter 8-inches with $\frac{3}{8}$ -inch size bore. Each.....\$4.75

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 $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ in. State width wanted.

3442—60-inch blade for 9-inch Saws. Each.....\$0.85
3442—60-inch blade, $\frac{3}{8}$ -inch width. Each.....\$0.95
3444—78-inch blade for 12-inch Saws. Each.....\$1.00
3444—78-inch blade, $\frac{3}{8}$ -inch width. Each.....\$1.20
For cutting soft metals such as aluminum, copper, etc.
3443—60-inch blade, $\frac{3}{8}$ inch in width. Each.....\$1.20
3445—78-inch blade, $\frac{3}{8}$ inch in width. Each.....\$1.30

BLADES FOR 16-INCH BAND SAW

3446— $\frac{1}{2}$ "x111". Each.....\$1.55
3446— $\frac{1}{2}$ "x111". Each.....\$1.55
3446— $\frac{1}{2}$ "x111". Each.....\$1.60
3446— $\frac{1}{2}$ "x111". Each.....\$1.75
3446— $\frac{1}{2}$ "x111". Each.....\$1.95
3447— $\frac{1}{2}$ "x111" Metal Cutting. Each.....\$1.85

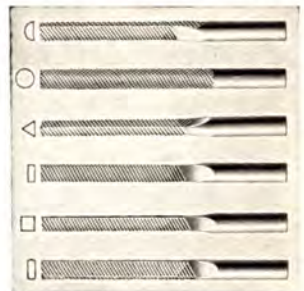
Dado Heads



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

3434A—Complete set, 4" diameter; $\frac{1}{2}$ " bore for 7" saws. Each.....\$2.50
343401—Outside blades only. Each.....\$0.75
343402—Inside cutters only. Each.....\$0.25
3435A—Complete set, 5" diameter; $\frac{3}{8}$ " bore for 8" saws. Each.....\$3.90
343501—Outside blades only. Each.....\$1.15
343502—Inside cutters only. Each.....\$0.35
3436A 6" Dado Head $\frac{5}{8}$ " Bore. Consists of two outer blades $\frac{1}{8}$ " thick, two inside cutters $\frac{1}{8}$ " thick, one $\frac{1}{4}$ " thick, and one $\frac{1}{2}$ " thick. \$10.75

Scroll Saw Files



Crucible steel, properly tempered. Will fit on 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	\$0.60
327002	327102	Half Round	.60
327003	327103	Pillar	.60
327004	327104	Square	.60
327005	327105	3 Square	.60
327006	327106	Crochet	.60
3270—Complete set of six, 0 cut.....			\$3.60
3271—Complete set of six, 00 cut.....			\$3.60

Jig Saw Blades Plain End

Finest quality Jig Saw Blades—correctly tempered and carefully set. State length wanted.

No.	Size Thick.Width	No. of Teeth	Price Per Pkg. of Six 5 Inch 6 Inch
3481A	.007 .028	18	\$0.18 .20
3482B	.010 .040	18	.18 .20
3483A	.016 .034	32	.12 .14
3483B	.016 .049	16	.18 .20
3483C	.016 .054	20	.18 .20
3484A	.020 .125	10	.20 .20
3484B	.020 .125	15	.20 .20
3485A	.012 .029	21	.15 .16
3486A	.013 .032	20	.16 .16
3487A	.020 .070	7	.20 .20
3487B	.020 .070	15	.20 .20
3487C	.020 .070	32	.20 .20

SABER BLADES

3490A—Package of 3.....\$0.25

Buffing Cloth

These fine grade cloth buffing wheels consist of eighteen layers of bleached muslin securely sewed together. All sizes have $\frac{1}{4}$ -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.....\$0.65
3212—12 in. dia. Ea.....\$0.85

Scratch Brushes

A well made, firmly set wire scratch wheel. All sizes have $\frac{1}{4}$ -inch arbor hole.

3224C—4-inches in diameter. Coarse Type. Each.....\$0.40
3224F—4-inches in diameter. Fine Type. Each.....\$0.50
3226C—6-inches in diameter. Coarse type. Each.....\$0.50
3226F—6-inches in diameter. Fine Type. Each.....\$0.65
3228C—8-inches in diameter. Coarse Type. Each.....\$0.70
3228F—8-inches in diameter. Fine Type. Each.....\$0.95

Grinding Wheels

Coarse grit for general grinding work—Fine grit for knives, etc. $\frac{1}{2}$ " arbor hole.

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

Sanding Discs

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

3254—Each.....\$0.65

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 $\frac{1}{4}$ inch thick.

3255—Each.....\$0.28

Sanding Belts

An endless Sanding Belt made in two sizes; the 3 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— $\frac{1}{2}$, 0, 00. Other grits on request. State grit wanted.

Number	Width In Inches	Length In Inches	Price Each
3258	3	30	\$0.45
3259	6	44 $\frac{1}{2}$	\$1.00

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.....\$0.50
3262—6" belts for 6" sander. Each \$1.10

Drum Sandpaper

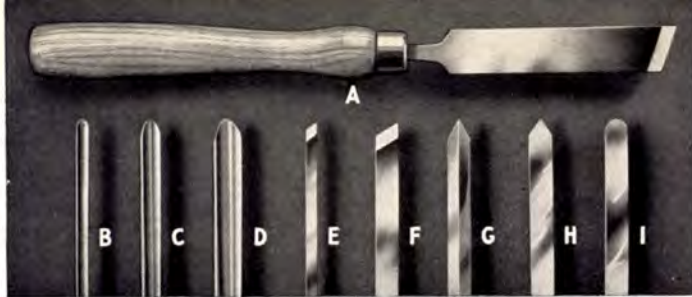
Just what you need for smoothing rounded edges and surfaces. This thick sanding band fits over the rubber drum that is pictured below, or any other of same size. For use with flexible shaft, polishing head, etc. State whether Coarse, Medium or Fine Grit is wanted.

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.

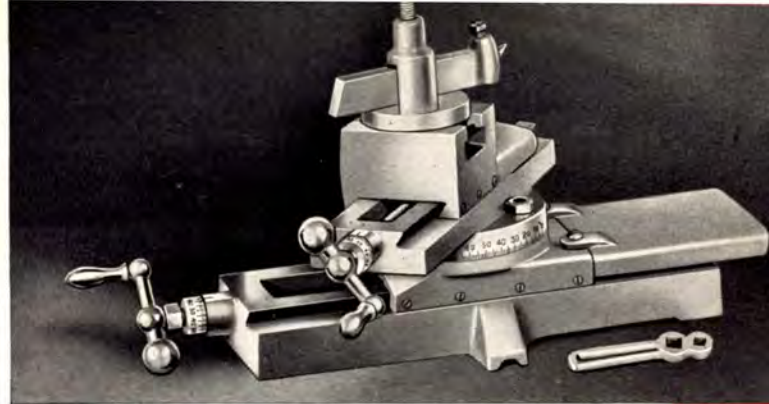
3251—Complete.....\$0.95



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) $\frac{1}{2}$ " x 4" Skew.	Each.....	\$0.70
320002—(F) $\frac{1}{2}$ " x 4" Skew.	Each.....	.75
320003—(C) $\frac{1}{2}$ " x 4" Gouge.	Each.....	.80
320004—(D) $\frac{1}{2}$ " x 5" Gouge.	Each.....	1.10
320005—(G) $\frac{1}{2}$ " x 4" Parting Chisel.	Each.....	.80
320006—(B) $\frac{1}{2}$ " x 4" Gouge.	Each.....	.80
320007—(I) $\frac{1}{2}$ " Round Nose.	Each.....	.75
320008—(H) $\frac{1}{2}$ " Spear Point.	Each.....	.75
320009—(A) $\frac{1}{2}$ " Regular Skew.	Each.....	1.10
3200-A—Set of 5 chisels packed in canvas roll, consisting of C, D, E, F, G.	Each.....	4.25
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) $\frac{1}{2}$ " x 4" Skew.	Each.....	\$0.50
320102—(F) $\frac{1}{2}$ " x 4" Skew.	Each.....	.55
320103—(C) $\frac{1}{2}$ " x 4" Gouge.	Each.....	.60
320104—(D) $\frac{1}{2}$ " x 5" Gouge.	Each.....	.80
320105—(G) $\frac{1}{2}$ " x 4" Parting Chisel.	Each.....	.55
3201A—Set of the above 5 chisels in canvas roll.	Each.....	3.15



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 takeup. Swivel base graduated in degrees. A quality tool—built to rigid specifications. Too holder and wrench included. Shipping weight 25 pounds.

305357—Compound Slide Rest for No. 3053 Lathe.....	\$17.95
305657—Compound Slide Rest for No. 3056 Lathe.....	\$17.95



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....	\$3.95
305644—Fit Lathe No. 3056. Each....	\$3.95



Steady Rests

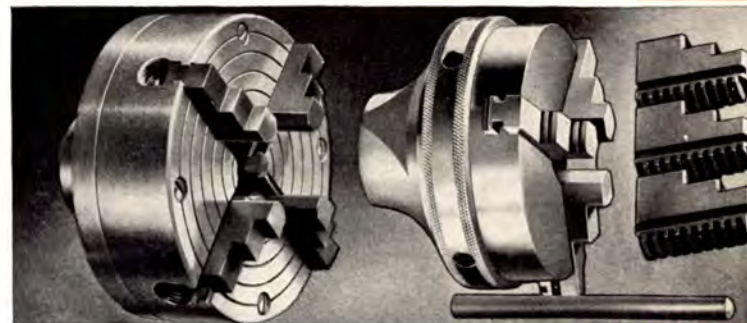
A most necessary accessory to the metalworker turning long pieces. Properly set it will prevent "whip" and enable the operator to make a true turning of long pieces. Made of good quality gray iron. Adjustable to take work up to 2 1/4 inches in diameter. Sturdily and well constructed.

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 \$0.75 305326—3 1/2 in., 1/2 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., 3/4 in. threaded or unthreaded—for 3053 Lathe. Each \$1.50 305618—6 in., 1 in. bore—cross threaded for 3056 Lathe. Each.....\$1.60



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.....\$6.75 305658—4 Jaw Chuck; 4 inch size for No. 3056 Lathe. Each.....\$6.75 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. 305659—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 5/8 inch—16 threads. 3148A—No. 2 Morse Taper. Each.....\$1.10 3148B—No. 1 Morse Taper. Each.....\$1.10



Chuck Center

1/2-inch chuck equipped with Morse Taper for use in lathes having taper specified. Used in tailstock of lathes or boring. Spindle is 1/2-inch—24 threads. 3146C—1/2-inch Chuck with No. 2 Morse Taper. Each.....\$1.45 3146D—1/2-inch Chuck with No. 1 Morse Taper. Each.....\$1.45



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.....\$0.75 305660—No. 2 Morse Taper.....\$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. Each...1.50 305605—4-inch Tool Rests for 3056 Lathe. Each... .75 305604—12-inch Tool Rests for 3056 Lathe. Each... 1.10 305606—24-inch Tool Rests for 3056 Lathe. Each... 2.25



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.....\$1.75



Lathe Dogs

Another quality metal turning accessory. Drop-forged from high grade steel—correctly shaped and tempered for great strength and toughness. Bent tail. Natural forged finish. 305661—3/4 inch...\$0.65



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.....\$1.35



Chrome Vanadium Steel Cutters



Routing Cutters

Straight routing cutters and round nose cove cutters made of high speed steel. Shanks $\frac{3}{16}$ " diameter.

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



Liner Cutter



Half Round



Round Nose



Hook Tool



Button Drill



Straight Face

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.

DURO $\frac{1}{2}$ -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 $1\frac{1}{4}$ -inches and maximum width 1-inch. For use on any $\frac{1}{2}$ -inch diameter spindle. With adaptors they may be used on the Production Shaper, Floor and Bench Model Drill Presses, and Carver.

Price each.....\$1.25
3591A— $\frac{1}{2}$ -inch Bore Depth Collars—Set of six......69



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 $2\frac{3}{8}$ " long by $\frac{3}{4}$ " thick. Order by numbers shown below.

356001 Shaper Collars $1\frac{1}{4}$ " diameter—per pair.....	\$1.25
356002 Shaper knife blanks— $\frac{1}{2}$ " wide—each.....	.75
356004 Shaper knife blanks—1" wide—each.....	.85

DURO $\frac{5}{16}$ -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 $\frac{5}{16}$ -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	.75

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.....\$12.25
3590A— $\frac{5}{16}$ -inch Bore Depth Collars. Set of six......55



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.

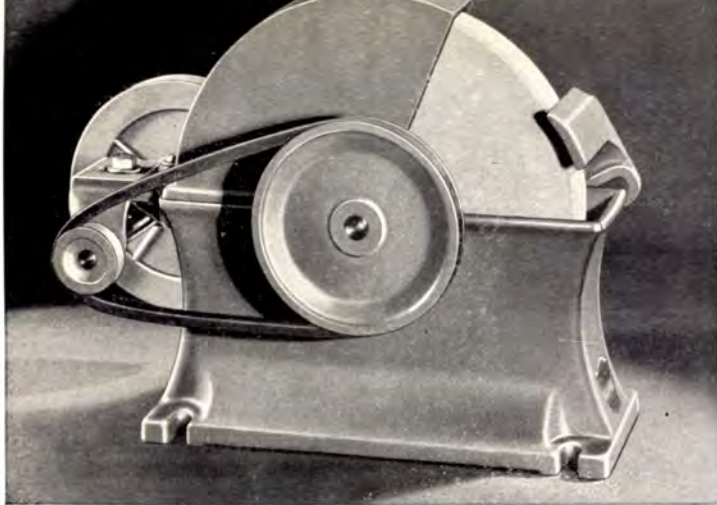


PICTURE BELOW SHOWS ACTUAL SIZE OF END OF BLADE

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.....	\$3.90

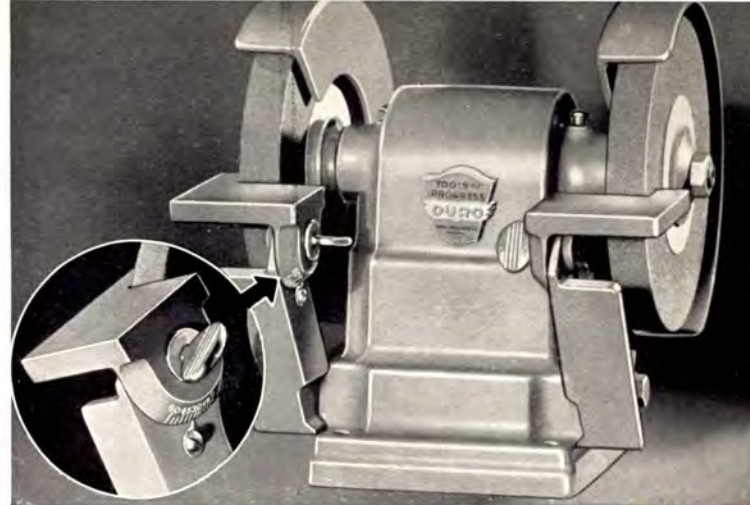


DURO Water Grinder

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 1½-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.....\$10.95



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 ¾" steel shaft mounted on self-lubricating bronze bearings, fitted with reservoirs for renewing lubrication. Two ¾" 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.....\$8.50



Accessory Kit

Use with Polishing Heads at right, as well as motor arbor or flexible shaft. Outfit consists of 4-in. saw with ½-in. bore; 4-in. grinding wheel; 4-in. scratch wheel; 4-in. cloth buffer and cake of polishing compound.

3130E—Complete.....\$1.35

3130D—8 x 8 in. stamped steel table with mitre gauge. Fits on 3130B polishing head. Each.....\$0.70



Chucks

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

3140A—½-in. chuck....\$0.40
3146A—½-in. chuck.... .75

Arbors

Designed to fit any ½-inch shaft; arbor takes wheels with ½-inch bore. Equipped with single groove pulley and chuck.

3150F—With ½ in. chuck.....\$1.30
3150B—With ½ in. chuck..... .95
3150A—Less chuck..... .55



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 2¼" V pulley with ½" steel shaft running in self-lubricating bearings. Complete with tool rest; guard; ½" x 4" grinding wheel; 4" buffing wheel and polishing compound. Ship. weight, 9 lbs.

3045A—Complete as pictured.....\$3.70
3045B—Polishing head less grinding wheel, buff and compound \$3.20



Polishing Heads

Heavy gray iron base. Split adjustable bearings equipped with oil holes. ½ inch steel spindle. 3-jaw ¼ 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 ¾ or ½ V-belts. Durable baked gray enamel finish. Shipping weight, 6 lbs.

3130B—Polishing Head with Chuck.....\$1.30

3130G—Polishing Head, similar to above but with plain bearings and one set of wheel flanges and without chuck.....\$.90

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.....\$.90



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	\$2.00
359802	1/2	2.10
359803	5/8	2.20
359804	3/4	2.50
359805	7/8	2.65
359806	1	3.15
359807	1 1/8	3.30
359808	1 1/4	4.00

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	\$1.60
359603	3/8	1.60
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	\$1.45
359703	3/8	1.45
359704	1/2	1.45

Mortising Head And Chuck

The mortising head and chuck is attached to the quill and spindle respectively after removing Jacob's Chuck. They hold the hollow chisels and chisel bits shown at the left.

Article Number	Price
308063 Mortising Head and Chuck for 3080 and 3081 Drill Presses.....	\$2.35
C308063 for C3080 and C3081 Drill Presses.....	\$2.35

Mortising Hold-Downs

To insure straight, clear mortising cuts and to prevent the wood from lifting when chisel is raised from the work, use the mortising hold down and guide as illustrated above. Baked gray enamel finish.

Article Number	Price
308064—for 3080 Drill Press. Each.....	\$1.95
308165—for C3080 C3081 and 3081 Drill Presses. Each.....	\$1.95

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.

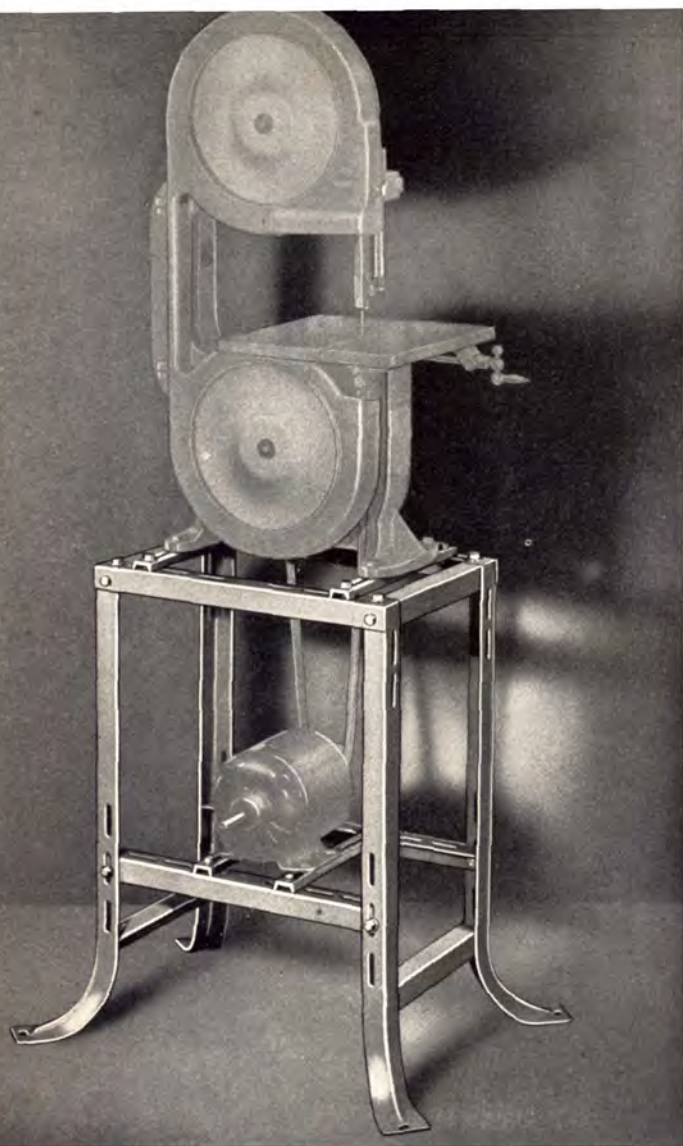
Article Number	Price
309003.....	\$3.95

Shaper Adaptors

For use on #3080 and #3081 Drill Presses for shaping with ¾" and ½" shaper cutters.

Article Number	Price
3593-¾—Adaptor to fit ¾ inch bore shaper cutters. Each.....	\$0.55
3593-½—Adaptor to fit ½ inch bore shaper cutters. Each.....	\$0.55

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. 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 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.\$7.45

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.\$7.85

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.\$10.45

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.\$10.75

3675—Combination Stand for 6" Jointer and 8" Bench Saw. Weight 34 lbs.\$9.85



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.

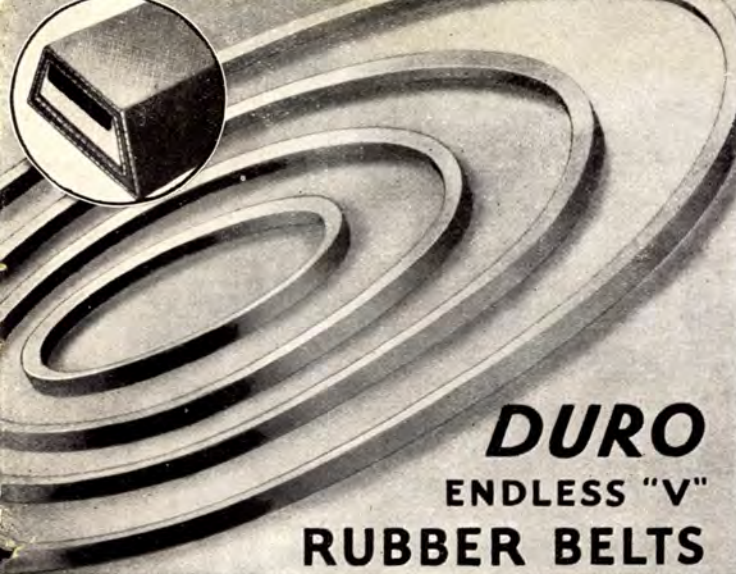
NO.	STYLE	DUTY	CAPACITY IN STEEL	NO LOAD SPEED	SHIPPING WEIGHT	PRICE EACH
3300	DA	Utility	$\frac{1}{4}$ in.	2000	5 lbs.	\$19.95
3305	DB	Ex-Heavy	$\frac{1}{4}$ in.	2000	10 $\frac{1}{2}$ lbs.	34.95
3310	DC	Heavy	$\frac{5}{16}$ in.	1400	11 lbs.	38.50
3315	DD	Special	$\frac{3}{8}$ in.	1300	12 lbs.	39.95
3320	DE	Ex-Heavy	$\frac{1}{2}$ in.	550	20 $\frac{1}{2}$ lbs.	54.00
3325	DG	Heavy	$\frac{5}{8}$ in.	480	21 $\frac{1}{2}$ lbs.	59.00
3330	DH	Standard	$\frac{3}{4}$ in.	425	23 $\frac{1}{2}$ lbs.	63.00

DURO 4-Speed Jack Shaft



The frame is extra heavy gray iron drilled to fit same space as $\frac{1}{2}$ 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 $\frac{1}{2}$ -inch end pulley and one 4-inch 4-step pulley taking $\frac{3}{8}$ or $\frac{1}{2}$ -inch V-Belts. Finished in baked corduroy gray enamel. Ship. wt., 12 lbs.

3110—Each\$3.75



DURO ENDLESS "V" RUBBER BELTS

Our Belts are of extra fine and lasting quality. Molded 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	Inside Circumference Inches	Price Each
360124	3/8	24	22 1/8	\$0.44
360131	3/8	31	29 1/4	.51
360134	3/8	34	32	.55
360143	3/8	43	40 3/4	.69
360160	3/8	60	58	.95
360226	1/2	26	24	.48
360228	1/2	28	26	.49
360233	1/2	33	31 1/2	.56
360237	1/2	37	35	.60
360239	1/2	39	36 1/8	.64
360240	1/2	40	38	.66
360242	1/2	42	39 1/2	.67
360244	1/2	44	42	.73
360246	1/2	46	43 1/2	.75
360248	1/2	48	46	.77
360250	1/2	50	48 3/8	.80
360253	1/2	53	51	.82
360256	1/2	56	53 1/2	.87
360258	1/2	58	56	.89
360260	1/2	60	58	.91
360262	1/2	62	60	.93
360265	1/2	65	63	.98
360270	1/2	70	68	1.04
360272	1/2	72	69 3/4	1.06
360277	1/2	77	75	1.10
360292	1/2	92	90	1.30



Steel Shafting

High grade ground and polished steel or 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 1/2" and 2 1/2" cents per inch for 3 1/2".

311702—Size 1/2 x 24 inches Each.....\$0.30
311705—Size 3/4 x 48 inches Each.....\$1.10

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.....\$0.23
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.....\$0.11
311902—3/4 inch size bore. Each......17

DURO Heavy Duty Shaft Hangers

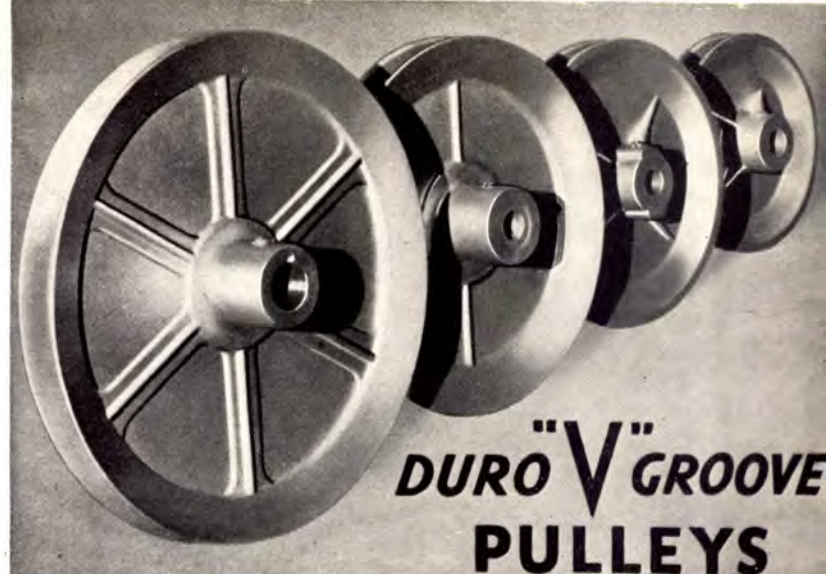
A very sturdy and practical line shaft hanger with one open side allowing the complete assembly of belts and pulleys on shaft before placing in the hangers. Specially designed for close quarters. Shafting is placed directly in hangers and does not need to be fed in from one end as in other types. Self-aligning 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 3/4 inch shafting only. Shipping weight 5 lbs.



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 1/2, 3/4, and 1 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



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 1/2".

Number	Diameter Inches	Bore Inches	Price Each
340125	1 1/2	1 1/2, 3/4	\$0.21
340150	1 1/2	1 1/2, 3/4	.24
340175	1 3/4	1 1/2, 3/4	.26
340200	2	1 1/2, 3/4	.28
340225	2 1/4	1 1/2, 3/4	.32
340250	2 1/2	1 1/2, 3/4, 1	.34
340300	3	1 1/2, 3/4, 1	.38
340400	4	1 1/2, 3/4, 1	.53
340500	5	1 1/2, 3/4, 1	.59
340650	6 1/2	1 1/2, 3/4, 1	.95
340800	8	1 1/2, 3/4, 1	1.50
341000	10	1 1/2, 3/4, 1	2.00
341200	12	1 1/2, 3/4, 1	2.60

NOTE: All "V" Pulleys up to 6 1/2" for use with 3/4 and 1/2 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 3/8 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 3/8 inch bore—Each.....\$0.40



4-Step "V" Pulleys

Made from special analysis die cast metal. Scientifically designed and balanced to run true at all speeds. Will take either 3/8 or 1/2 inch "V" type rubber belts. No. 305009 for 3/8 Belts only. State bore wanted.

Number	Diameter Inches	Bore Inches	Price Each
341505	4 3/4, 2 1/2, 1 3/4	1 1/2, 3/4, 1	\$1.00
341506	5, 3 3/4, 2 1/4, 1 3/4	1 1/2, 3/4, 1	1.15
305009	For 3050 Lathe	1 1/2, 3/4	.85
305617	For 3056 Lathe	1 1/2, 3/4, 1	1.50
300715	For Scroll Saw	1 1/2	1.25
300716	For Scroll Saw Motor		.85

Scroll Saw pulleys used in pairs produce speeds 650, 1000, 1300, 1750 RPM.



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 1/2 inch length; bore sizes 1/2 or 3/4 inches. Each.....\$0.50
341802—1 1/2 inch hub; 2 1/4 inch outside diameter; 1 1/2 inch length; bore sizes 1/2, 3/4, or 1 inch. Each.....\$0.60
341812—1 inch hub; 1 1/2" and 3/4" combination bore.....\$0.50
341813—1 1/4 inch hub; 1 1/2" and 3/4" combination bore.....\$0.60
341814—1 1/2 inch hub; 1 1/2" and 3/4" combination bore.....\$0.60
341815—1 3/4 inch hub; 3/4" and 1/2" combination bore.....\$0.60

Crown Face Metal Pulleys

Special analysis die cast metal. 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 1/2, 3/4	\$0.33
341602	2 x 2	1 1/2, 3/4	.38
341603	2 x 3	1 1/2, 3/4	.57
341605	2 1/2 x 2 1/2	1 1/2, 3/4	.50
341606	2 1/2 x 3	1 1/2, 3/4	.67
341608	3 x 1 3/4	1 1/2, 3/4	.51
341611	3 x 3	1 1/2, 3/4	.78

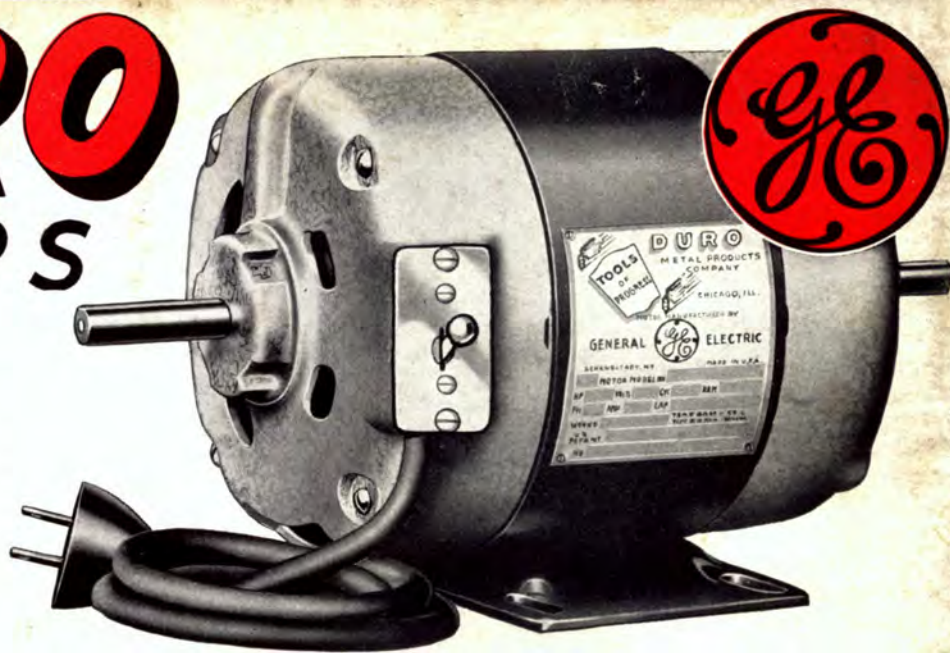


DURO MOTORS

Quality - Guaranteed

Duro Metal Products Company with the cooperation of the General Electric Company has made it possible for the woodworking field to purchase standard brand motors at popular prices. All Duro motors incorporate the latest engineering developments and each motor bears the GE trade-mark to insure the purchaser that they are built to GE quality standards. . . . The highest in the electrical field.

All Duro motors are doubly guaranteed, and backed by the Duro Metal Products Company as being the best that can be purchased in their respective fields, and carrying the regular GE guarantee as to service, workmanship and materials. GE service stations in every large city will give maximum and efficient service with the least possible delay. If you desire other motors than listed in our large selection, prices will be given on application.



1/3 H. P. STANDARD-DUTY MOTOR

A standard brand motor at a new low price. Diamond bored bearings with end thrust, runs in vertical or horizontal position. Statically and dynamically balanced. Aluminum cast rotor with large fan insures perfect ventilation. Extra long double end shafts. 10 foot, heavy rubber cable and plug with internal starting switch. Unusually smooth running motor, quiet and entirely free from vibration. Shipping weight 30 lbs.

No. 3750 DES. . . . 110 Volt, 60 Cy. AC. . . . \$10.95

\$10⁹⁵



1/4 H. P.

**SLEEVE
BEARING**

\$9⁹⁵

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 1/2" at pulley but larger through bearings and motor. Height from base to center of shaft from base 3 1/2". 10 ft. of rubber covered cable. 110 volt, 60 cy. AC. Shipping weight 27 lbs.

No. 3700 SES 1/4 H.P. single end shaft. . . . \$9.95



1/3 H. P.

**BALL
BEARING**

\$14⁹⁵

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 1/2". 10 ft. rubber covered cable and internal starting switch. 110 volt, 60 cy. AC. Shipping wt. 33 lbs.

No. 3710 DEB. . . . \$14.95



1/2 H. P. HEAVY DUTY

**Repulsion
Induction**

\$33⁹⁵

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 1/2". 10 ft. rubber covered cable and snap switch. 110-220 volt, 60 cycle AC. Shipping weight 57 lbs.

No. 3720—SES single end shaft. . . . \$33.95

No. 3720—DEB same motor as above with ball bearings and double end shaft. . . . \$37.95

No. 3730—SES 1/2 H.P. single end shaft, sleeve bearing. . . . \$39.95



1 H. P. HEAVY DUTY

**Capacitor
Type**

\$41⁵⁰

A new motor, specially designed by the General Electric Company and built to our specifications for the woodworking machinery field. Designed to run at 3450 R.P.M. and especially recommended for use with bench saws, jointers and other work where heavy duty motors are required.

The capacitor motor does not require brushes or starting windings, with the result that there is no radio interference or excessive load on line when started. The watt output load is remarkably low considering the maximum power developed—approximately 2 H.P. The flow of power is even and continuous. The one piece cast aluminum rotor statically and dynamically balanced is the latest type construction providing longer life and giving greater efficiency. Equipped with New Departure Sealed Ball-Bearings. Heavy 3/4" double end shaft. Complete with extra heavy rubber-covered cable. For 110-220 volt, AC current, 60 cycle. Shipping weight 45 pounds.

No. 3740 DEB. . . . \$41.50

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

POWER TOOL DIVISION

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