

WOOD-WORKING MACHINERY

FOR

Contractors

and

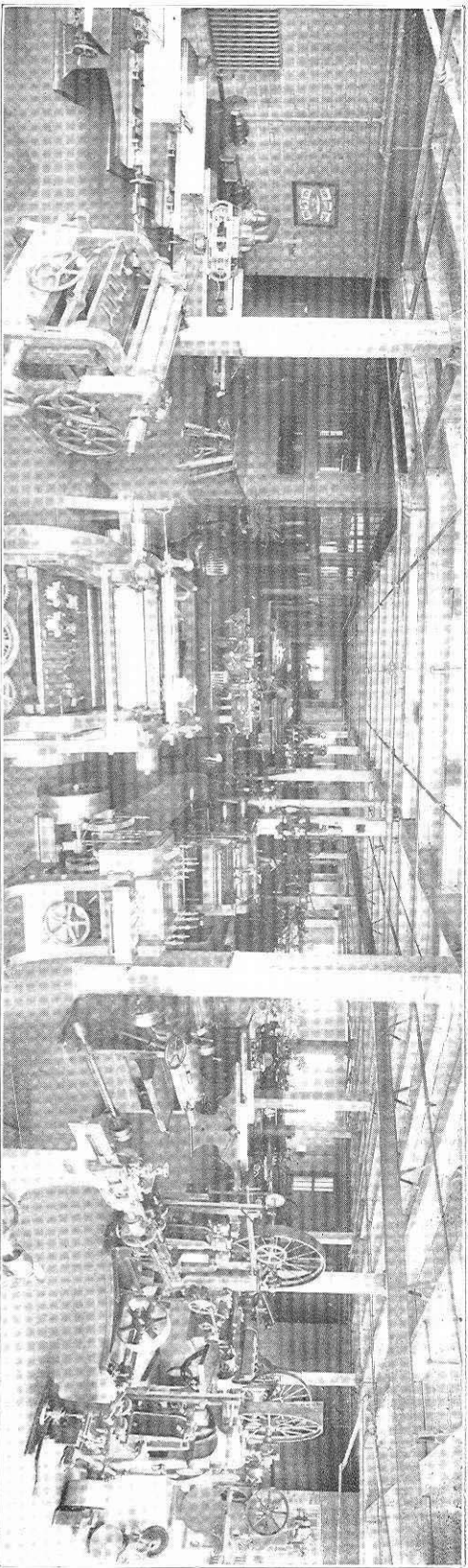
Builders

CHICAGO MACHINERY EXCHANGE

1219-1227 WASHINGTON BLVD.

CHICAGO, ILLS.

WRITE FOR GENERAL CATALOGUES
WE HAVE WOOD-WORKING MACHINES FOR ALL PURPOSES



We show here a picture of our main display floor. We have on exhibition the largest assortment of New and Second Hand Wood Working Machinery in the United States. We represent the leading machine manufacturers of the country; shops that specialize on a few machines and by concentrating their efforts are able to produce perfect tools and superior to factories that try to make several hundred different machines in one plant.

CHICAGO MACHINERY EXCHANGE

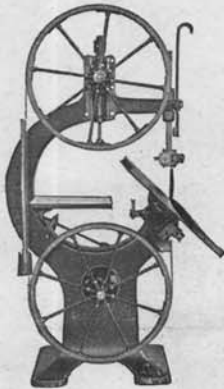
1219-1227 Washington Blvd.,

CHICAGO, ILLS.

We Suggest, Mr. Contractor and Builder

that you figure what it costs you each year to have your mill work done, think of the costly delays and also of the inconvenience. WHY NOT start a little mill of your own? The cost is comparatively little. You can get a complete outfit for approximately \$600.00, including the six high grade machines shown below, with countershafting, 20 ft. of line shafting, with four ring oiling hangers, pulleys, etc., etc.

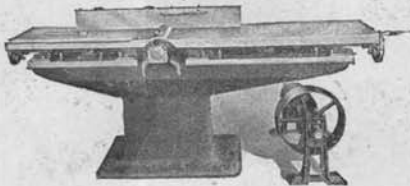
A 5 Horse Power Motor or Gasoline Engine will drive three or more of these machines at once, but is not included in this price.



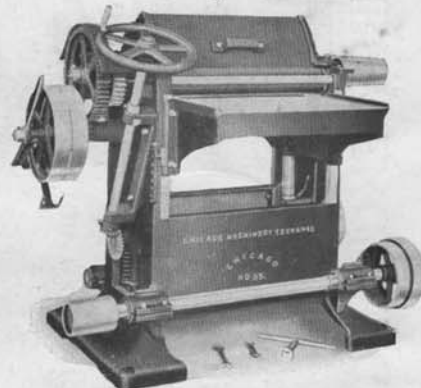
32 in. Band Saw.



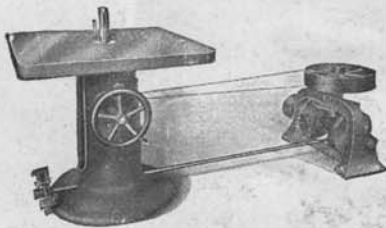
Swing Saw.



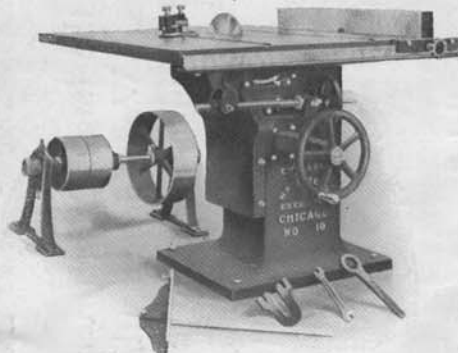
12 in. Jointer.



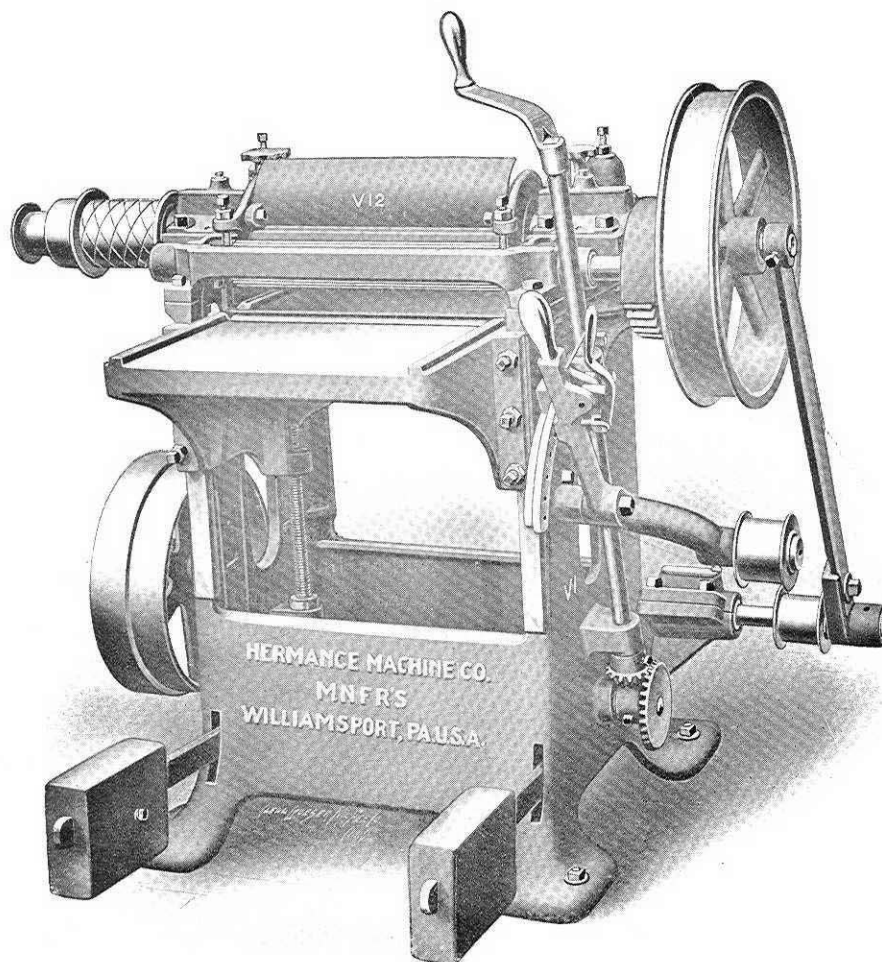
20 in. Pony Planer.



Variety Shaper.



Variety Saw.



No. 1 PONY PLANER.

Planes 16" wide and 8" thick.

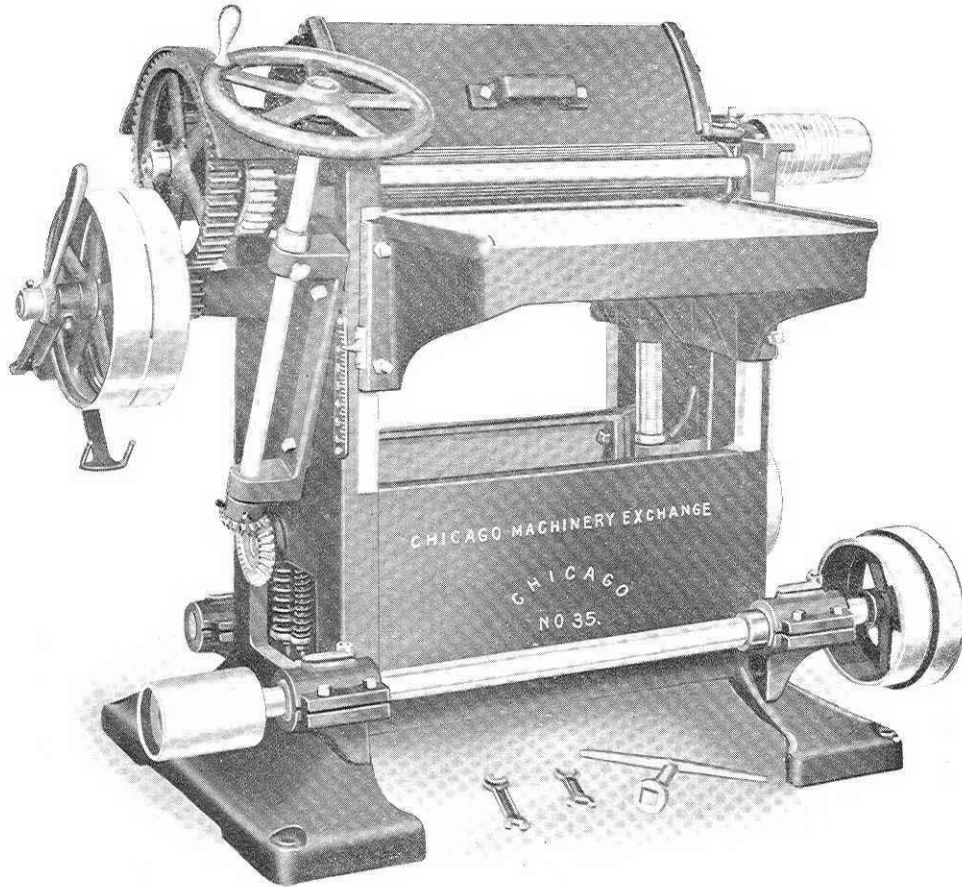
Table slides on outside of frame, securing steadiness and has adjustable gibs to take up any lost motion.

Cylinder journals are 6"x1 $\frac{5}{8}$ ". The journal caps are fitted in planed ledges so they cannot jar loose. The cylinder has both adjustable chip-breaker and pressure bar.

There are four feed rolls, the two upper rolls being power driven. There are two rates of feed, one for soft wood at 38 feet a minute and one for hard wood at 22 feet a minute. The feed gets its power from cylinder, so one regulates the other. The feed is controlled by a hand tightener. Weight 1250 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 9"x5" — 900 R. P. M.

EQUIPMENT.

Furnished with one pair 16" knives and countershaft.



No. 34 and No. 35 PONY PLANER.

Made to plane either 20" or 24" wide and 6" thick.

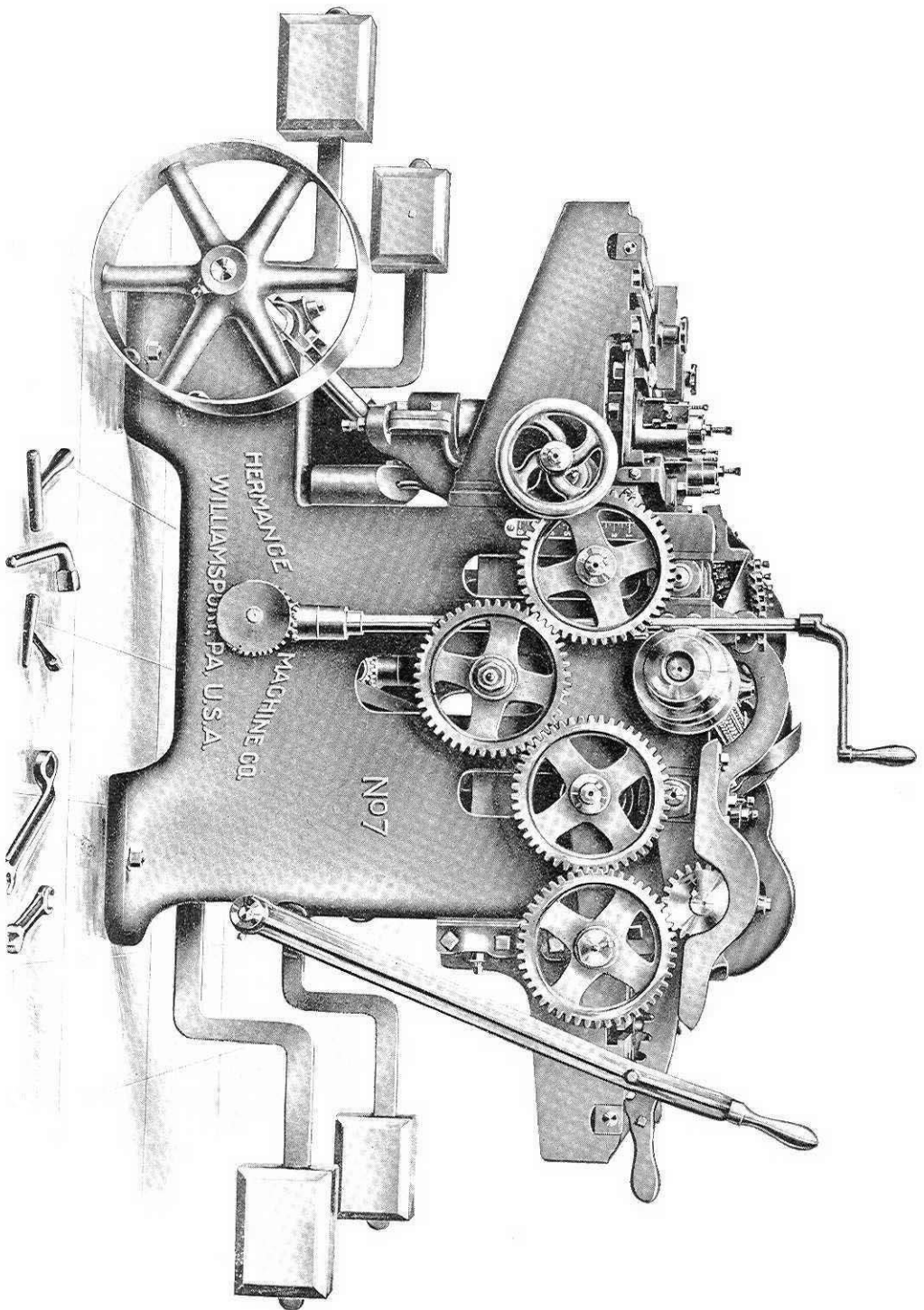
Table slides on outside of frame, securing steadiness and has adjustable gibs to take up any lost motion.

Cylinder journals are $1\frac{11}{16}$ "x6". The cylinder has both adjustable chip-breaker and pressure bar.

There are four feed rolls, the two upper rolls being power driven. There are two rates of feed desirable for planing soft and hard wood. The feed gets its power from the cylinder so one regulates the other. The feed is stopped and started with a handy belt shifter.

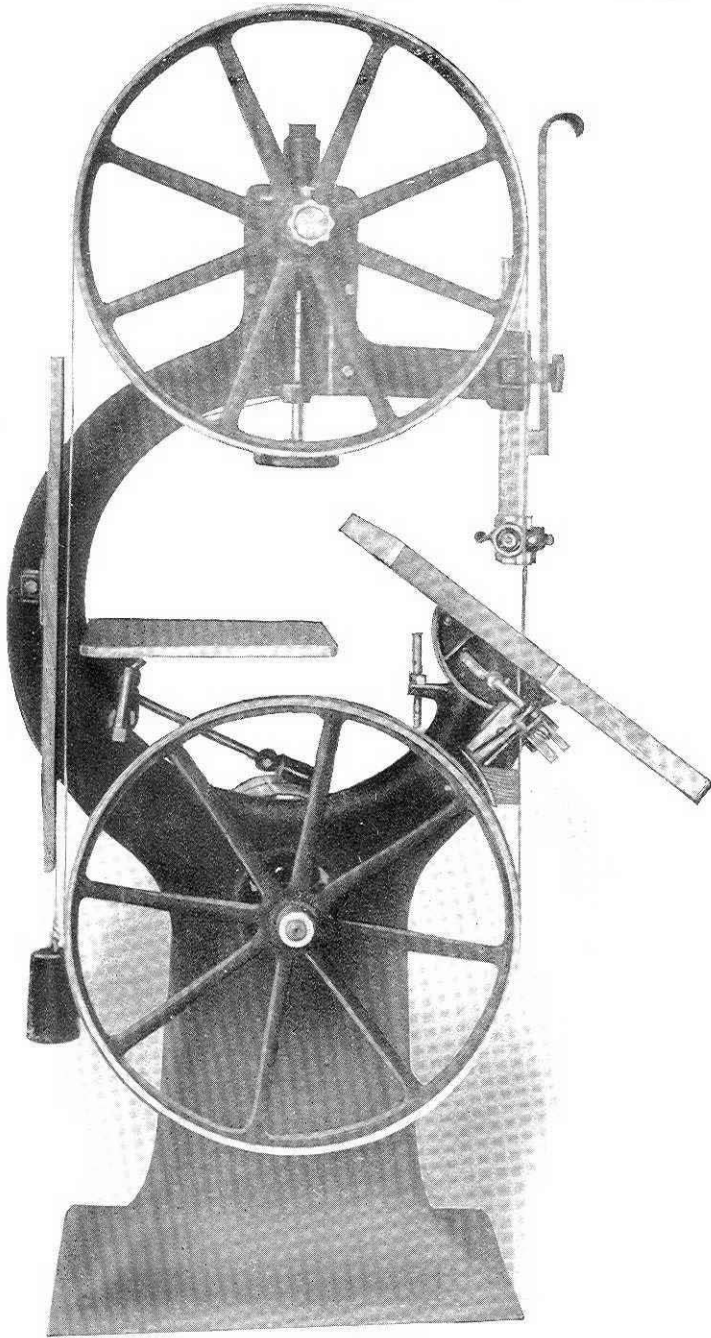
Weight about 1400-1650 lbs. Requires 3 and 4 Horse Power. Tight and Loose Pulleys 10"x5" — 1000 R. P. M.

EQUIPMENT. Furnished with one pair of knives the width of the machine and countershaft.



NO. 7 PLANER AND MATCHER AND MOULDER. A compact machine. It planes 24" wide by 8" thick and matches 14" wide. The table slides on outside of frame, securing steadiness. The feed rolls are 4½" diameter and all are power driven. There are two rates of feed 25 ft. and 46 ft. per minute. The feed is controlled by a hand tightener. The cylinder is double beveled, four-sided and slotted. The chipbreaker and pressure bar for top cylinder are adjustable for swinging large moulding cutters. The matcher heads can be swung out of the way when planing full width of machine. Weight 3400 lbs. Requires 5 to 10 Horse Power. Tight and Loose Pulleys 10"x6"—900 R. P. M.

NO. 8 PLANER AND MATCHER AND MOULDER. Same design as above No. 7, but fitted with lower cutter head so to plane four sides. **EQUIPMENT.** Furnished with pair 24" knives for each cylinder, one pair novelty siding knives, one pair bending bits, one pair four slotted jointer heads with 4½" knives. One pair two-wing matcher heads with milled bits will be furnished in place of jointer heads if desired. Counter-shaft and wrenches.



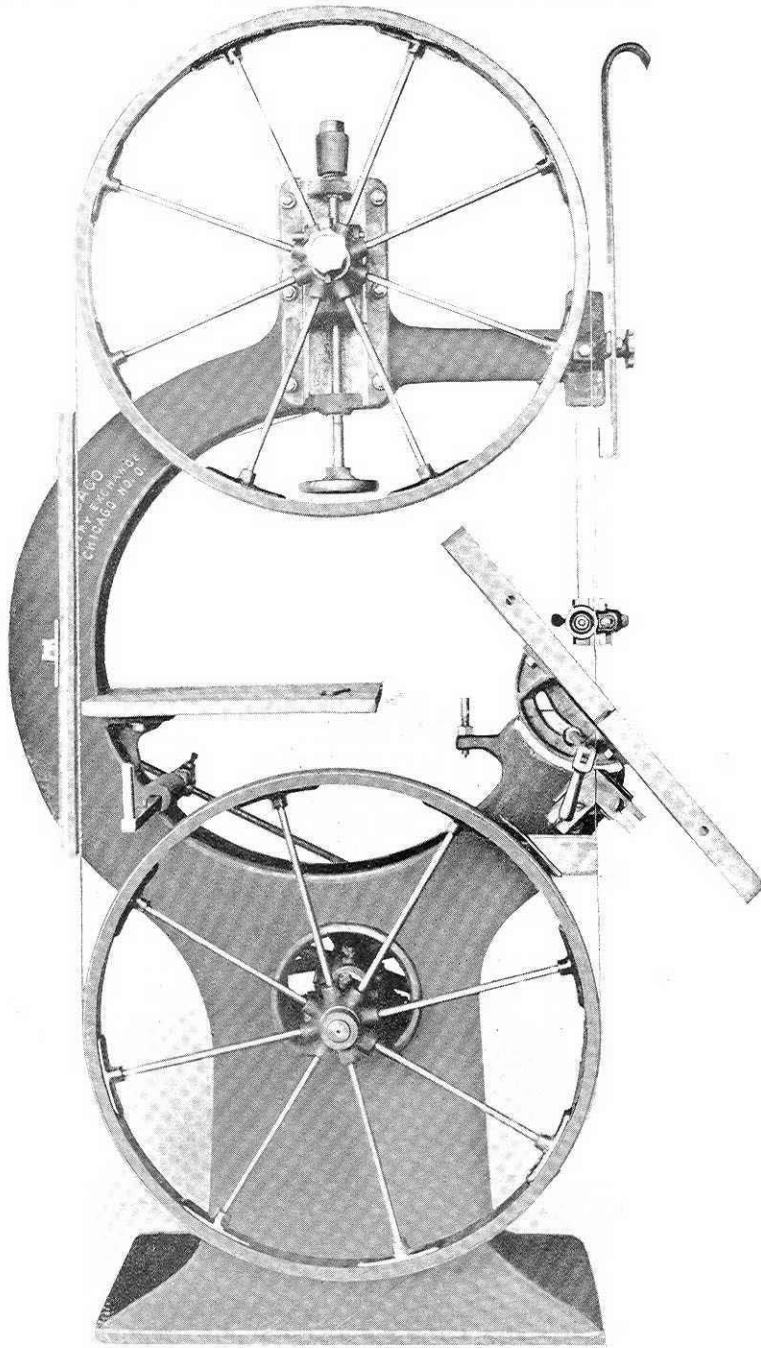
No. 00 BAND SAW.

The wheels are 27" diameter, $1\frac{1}{2}$ " face. Upper wheel has spring tension for saw and is adjusted by hand wheel in front to lead saw. Iron tilting table measures 22"x26". Guide Bar is square and counterbalanced, it admits 14". Weight 800 lbs. Requires 2 Horse Power. Tight and Loose Pulleys 10"x3 $\frac{1}{4}$ " — 500 R. P. M.

EQUIPMENT.

Furnished with "Wright" roller guide and one $\frac{3}{8}$ " saw blade, brazing clamp and tongs and one wrench.

Extra blades carried in stock for prompt shipment.



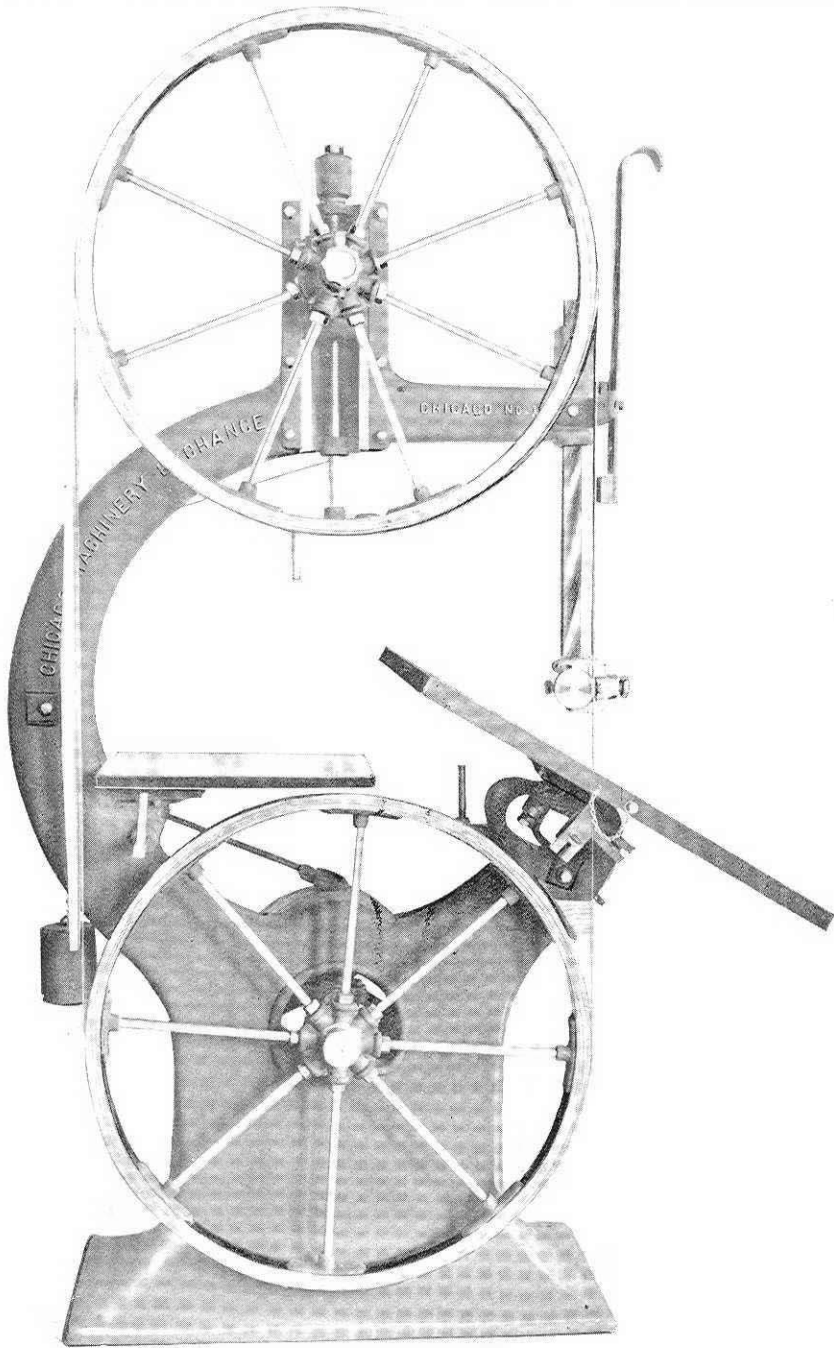
No. 0 BAND SAW.

The wheels are 32" diameter, $1\frac{3}{4}$ " face. Upper wheel has a spring tension for saw and is adjusted by hand wheel in front to lead saw. Iron tilting table measures 26"x32". Guide Bar is square and counterbalanced, it admits 15". Weight 1050 lbs. Requires 2 Horse Power. Tight and Loose Pulleys 12"x3 $\frac{1}{4}$ " — 500 R. P. M.

EQUIPMENT.

Furnished with "Wright" roller guide and one $\frac{3}{8}$ " saw blade, brazing clamp and tongs and one wrench.

Extra blades carried in stock for prompt shipment.



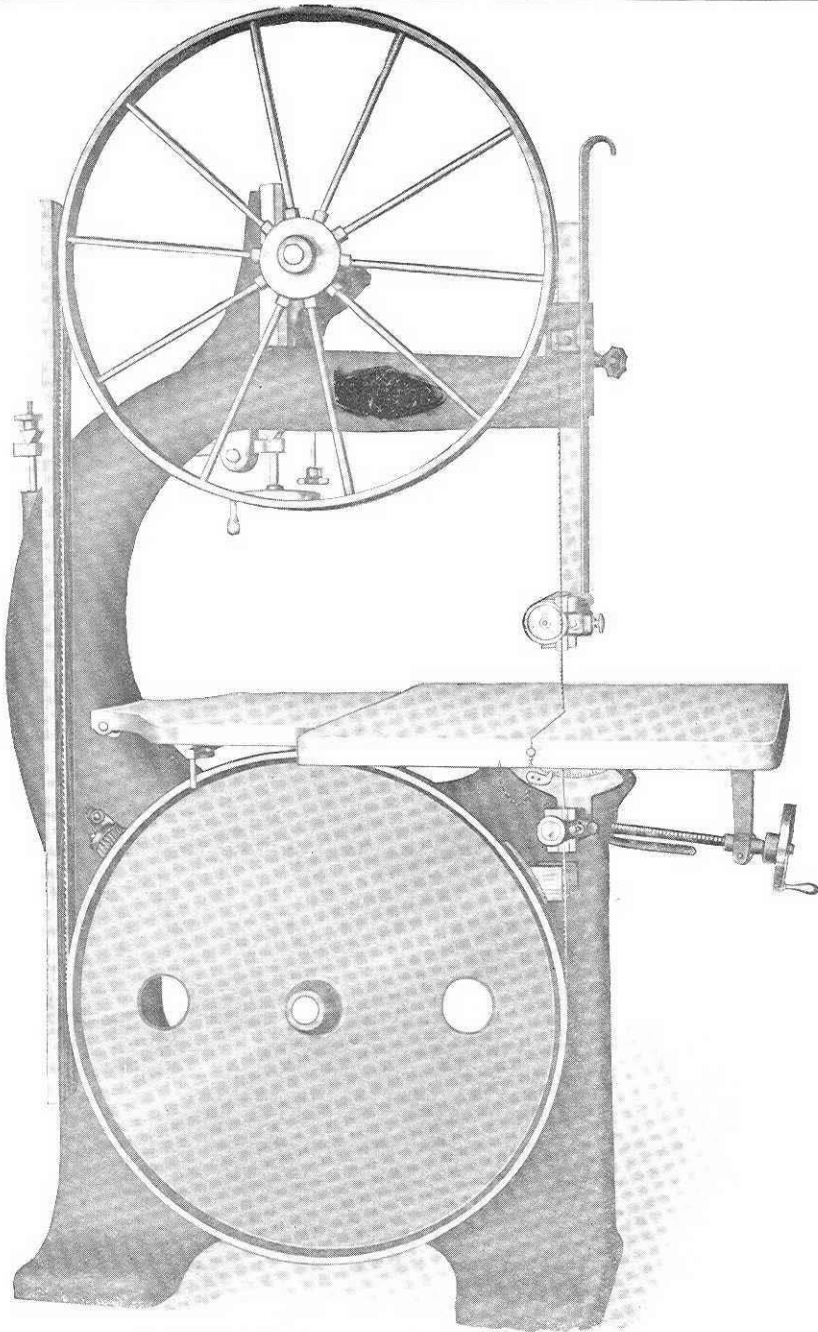
No. 1 BAND SAW.

The wheels are 36" diameter, 2" face, made either with wood rim or solid iron. Also made at extra price with solid web lower wheel. Upper wheel has spring tension for saw and is adjusted by hand wheel in front to lead saw. Iron tilting table measures 30"x38". Guide Bar is square and counterbalanced, it admits 19½". Weight 1400 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 14"x4" — 500 R. P. M.

EQUIPMENT.

Furnished with "Wright" roller guide and one ¾" saw blade, brazing clamp and tongs and one wrench.

Extra blades carried in stock for prompt shipment.



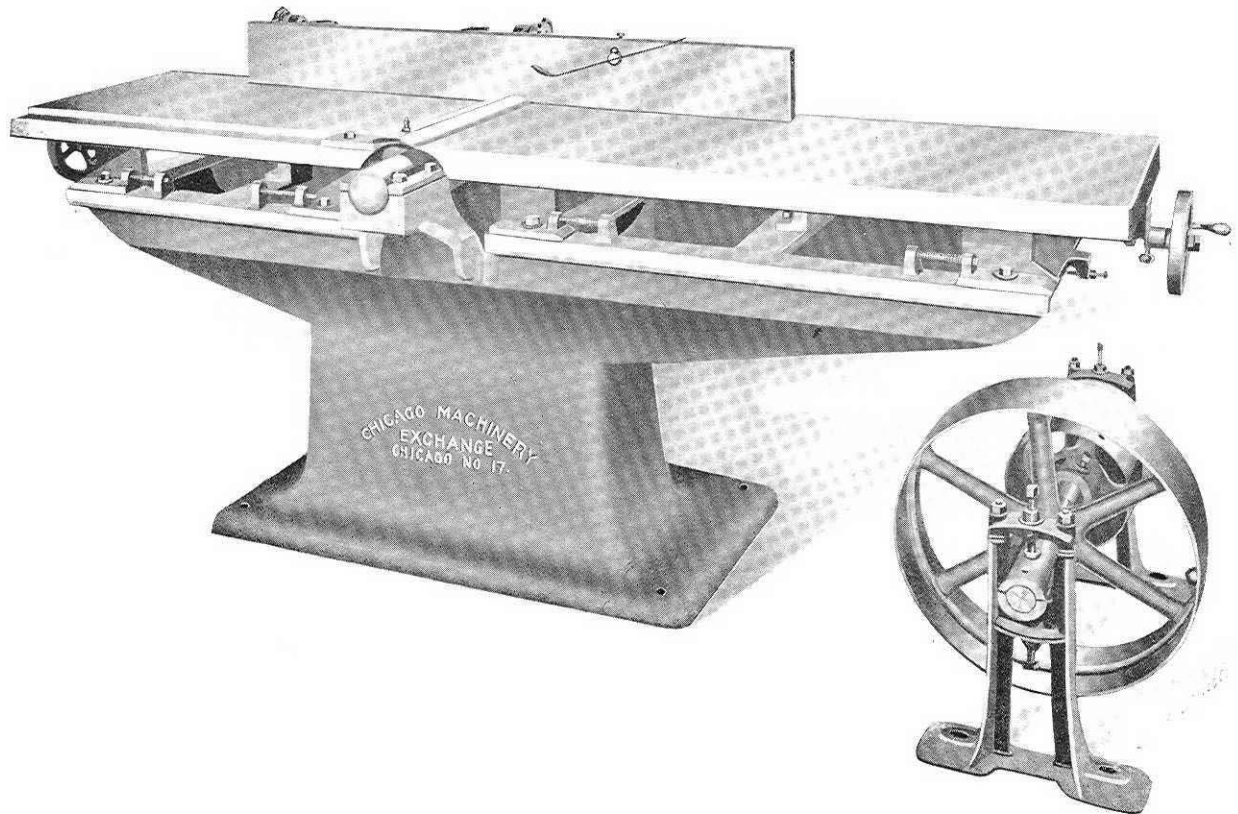
SPECIAL No. 1 BAND SAW.

The wheels are 36" diameter, 2" face, upper wheel made of steel and lower wheel with solid web to give momentum to saw. Upper wheel has adjustable spring tension and has a hand wheel to control position of saw on wheel while in motion. Iron table measures 30"x38" and is tilted by hand wheel and screw. Guide Bar is square and counterbalanced, it admits 19½". Weight 1680 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 14"x4½" — 600 R. P. M.

EQUIPMENT.

Furnished with "Wright Roller Guides" above and below table, one ⅜" saw blade, brazing clamp and tongs and one wrench.

Extra blades carried in stock for prompt shipment.



HAND JOINTERS.

The tables are arranged for rabbitting. Each table is mounted on four adjustable inclines. Either table can be drawn from head to change knives.

The fence is fitted to the rear or receiving table, can be tilted and has a hold-down spring.

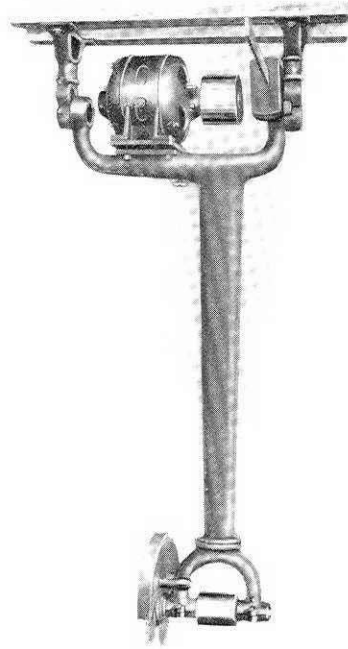
The cylinder is made four-sided, two sides being slotted for holding moulding knives. A round cylinder can also be furnished in place of the square cylinder.

SPECIFICATIONS.

Size of machine, length knives.....	8 in.	12 in.	16 in.	20 in.
Length of tables, over all.....	6 ft. 3 in.	7 ft. 3 in.	7 ft. 3 in.	7 ft. 3 in.
Cylinder, journals, diam.....in.	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{11}{16}$	1 $\frac{11}{16}$
Cylinder pulley	3 $\frac{1}{2}$ x3 $\frac{1}{2}$	4x4 $\frac{1}{2}$	4 $\frac{3}{4}$ x5 $\frac{1}{4}$	4 $\frac{3}{4}$ x5 $\frac{1}{4}$
T. and L. pulley (self-oiling loose) ..	8x8 $\frac{1}{4}$	10x5	10x5 $\frac{1}{2}$	10x5 $\frac{1}{2}$
Speed countershaft.....r. p. m.	900	900	900	900
Speed cylinder head.....r. p. m.	4000	4000	4000	4000
Horse power required, average.....	2	2 $\frac{1}{2}$	3	4
Weight.....lbs.	950	1400	1700	1800

EQUIPMENT.

Each machine is furnished complete with countershaft, adjustable bevel gauge, hold-down spring and post, guard, one pair of straight jointer knives with bolts, two extra bolts and wrench.



Motor Driven Swing Saw.

No. 7 SWING SAW.

This machine as regularly furnished measures 7 ft. from center of mandrel to base of hangers. Longer or shorter lengths can be furnished on order.

The frame swings on the outside of the countershaft journal boxes and not on the shaft. The section of the frame carrying the mandrel is fitted in a turned pocket and is detachable for convenience in rebabbitting and also for lining up. The hangers supporting the machine have a vertical adjustment to make up for wear of saw and also for lining up machine.

A counterbalance weight is provided for returning saw after cut.

The mandrel pulley is 5" diameter and $5\frac{1}{2}$ " face. Saw hole is $1\frac{1}{8}$ " diameter.

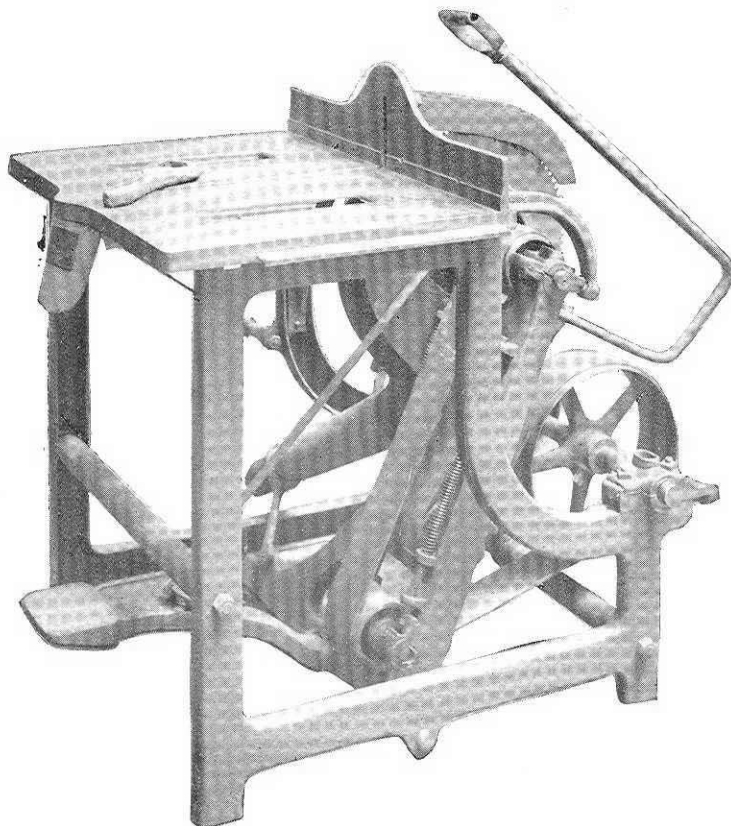
The saw hood furnished will accommodate saws up to 20" diameter.

A hood for 24" saw can be furnished.

Weight 500 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 8"x5"
— 700 R. P. M.

EQUIPMENT.

Furnished with one 16" saw and belt shifter.



No. 71. RAPID CUT OFF SAW.

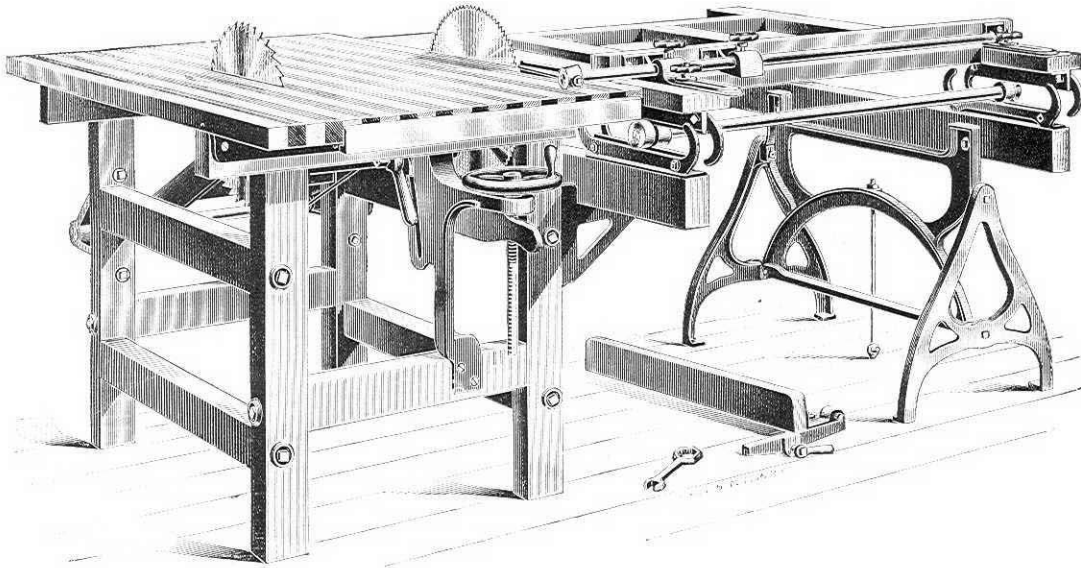
The saw has a stroke of 18" and is drawn forward either by hand or foot power. A saw 16" diameter projects $4\frac{1}{2}$ " above table. The saw has a hood and pipe for blower connections. Saw hole is $1\frac{1}{8}$ " diameter.

The table is 30" long and 22" wide and has ledges cast on both ends for supporting wooden extension tables.

Weight 500 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 8"x4"
—800 R. P. M.

EQUIPMENT.

Furnished with one 16" saw and endless drive belt for mandrel.



COMBINATION RIP AND CARRIAGE CUT-OFF SAW AND DADO MACHINE.

The frame is made of hard maple and the table is made of glued up strips of hard maple (5 years air dried).

The table has removable throat pieces for dado heads.

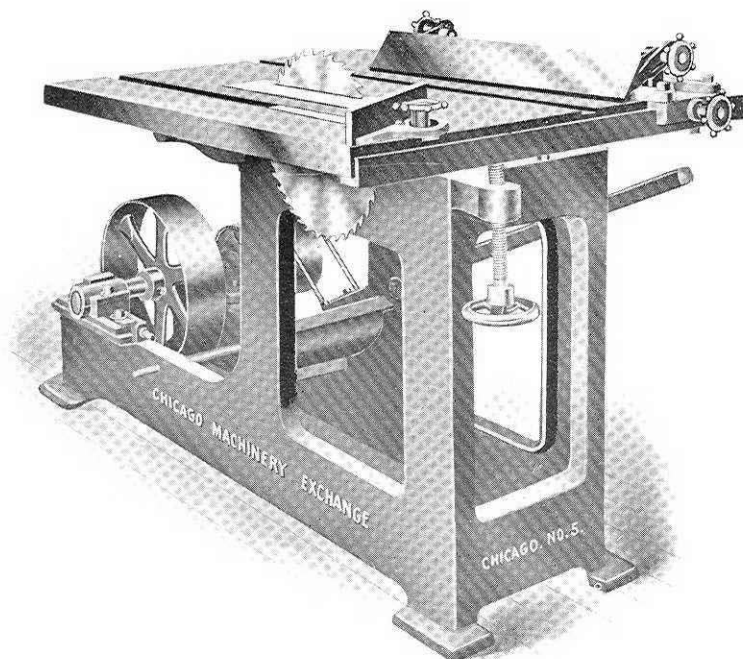
The saw mandrel carries a saw on each end and is raised and lowered by hand wheel and screw. A hand lock nut is provided for holding mandrel frame rigid.

The carriage cut off table moves very easily on anti-friction rollers and works accurately.

	Shipping Weight	Speed of Counter	T. & L. Pulleys	Length of Carriage	Carriage Travel	Size of Table	Distance between Saws	Hole in Saws	Arbor Pulley	Diam. of Saws
No. 1 Machine	940	710	9x4 $\frac{1}{4}$ in.	4, 6 or 8 ft.	23 in.	33x54 in.	22 $\frac{1}{4}$ in.	1 in.	4x5 in.	14 in.
No. 2 Machine	1140	610	11x5 $\frac{1}{2}$ in.	4, 6 or 8 ft.	27 in.	35x60 in.	23 $\frac{1}{4}$ in.	1 $\frac{1}{8}$ in.	4 $\frac{1}{2}$ x6 in.	16 in.

EQUIPMENT.

Furnished with one each rip and cross-cut saw, countershaft and arbor wrench.

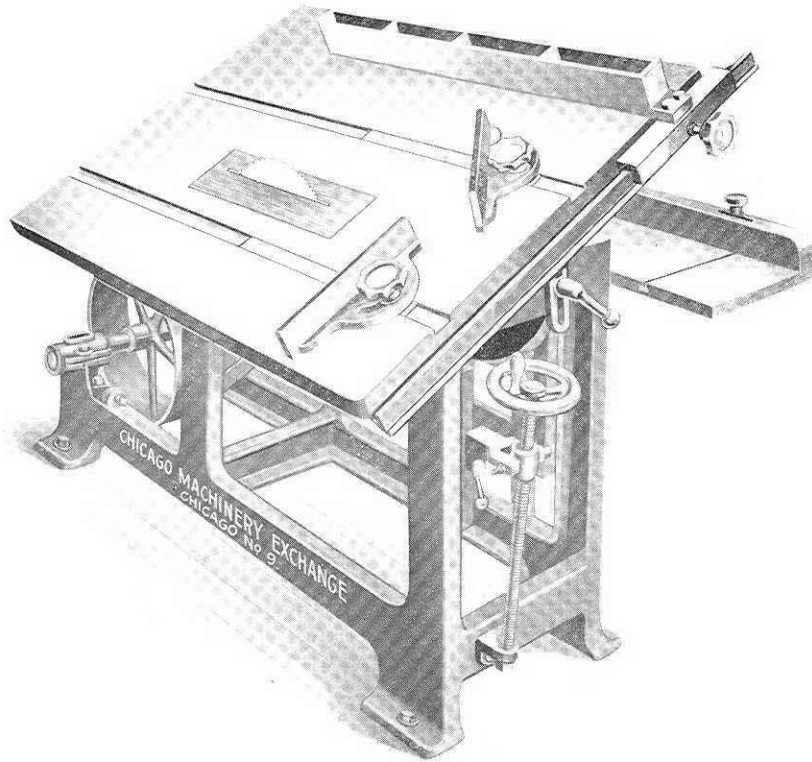


No. 5 RIP AND CUT-OFF SAW.

Table is iron, 30"x38"; has grooves on both sides of saw for cross-cut fence and has a removable wood throat piece, so grooving saws can be used. Table is raised on end by hand wheel and screw. Saws up to 16" diameter can be used. Saw arbor is $1\frac{1}{8}$ " diameter where saw fits and drive pulley $3\frac{1}{2}$ " diameter by 5" face. Countershaft boxes are adjustable for taking up stretch of belt. Machine is fitted with belt shifter. Weight 750 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 10" and $4\frac{1}{2}$ " — 650 R. P. M.

EQUIPMENT.

Furnished with one 12" rip or cutoff saw, 4" endless belt, one tilting rip and two bevel fences, and saw arbor wrench. Can be fitted with boring and hollow chisel mortising attachments at extra cost.

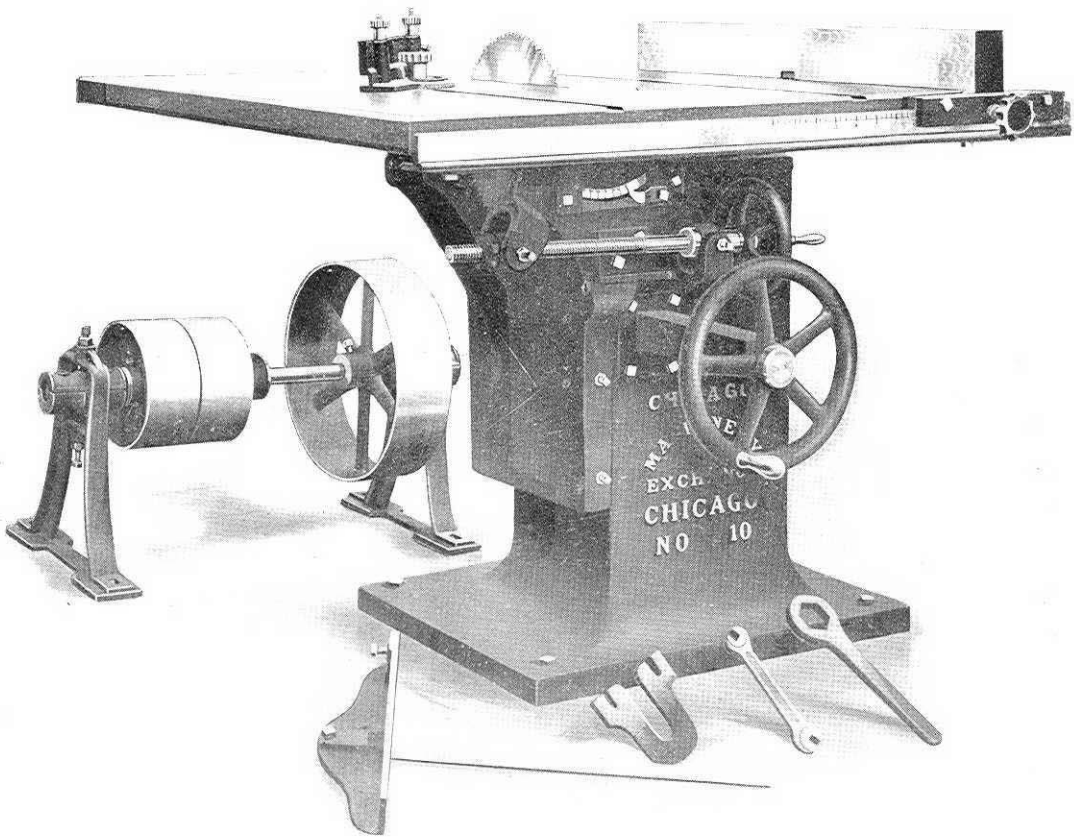


No. 9 TILTING TABLE SAW.

Table is iron, 30"x40"; can be tilted to 45 degrees, has grooves on both sides of saw for cross-cut fence and has removable wood throat piece, so grooving saws can be used. Saws up to 16" diameter can be used. Saw arbor is raised and lowered by hand wheel and screw. Saw mandrel is 1 $\frac{1}{8}$ " diameter where saw fits and drive pulley 3 $\frac{1}{2}$ " diameter x 5" face. Countershaft boxes are adjustable for taking up stretch of belt. Machine is fitted with belt shifter. Weight 800 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 10"x4 $\frac{1}{2}$ " — 650 R. P. M.

EQUIPMENT.

Furnished with one 12" rip saw, 4" endless belt, one rip and two bevel cross-cut fences, and saw arbor wrench. Can also be fitted with boring and hollow chisel mortising attachments at extra cost.



No. 10 TILTING TABLE VARIETY SAW.

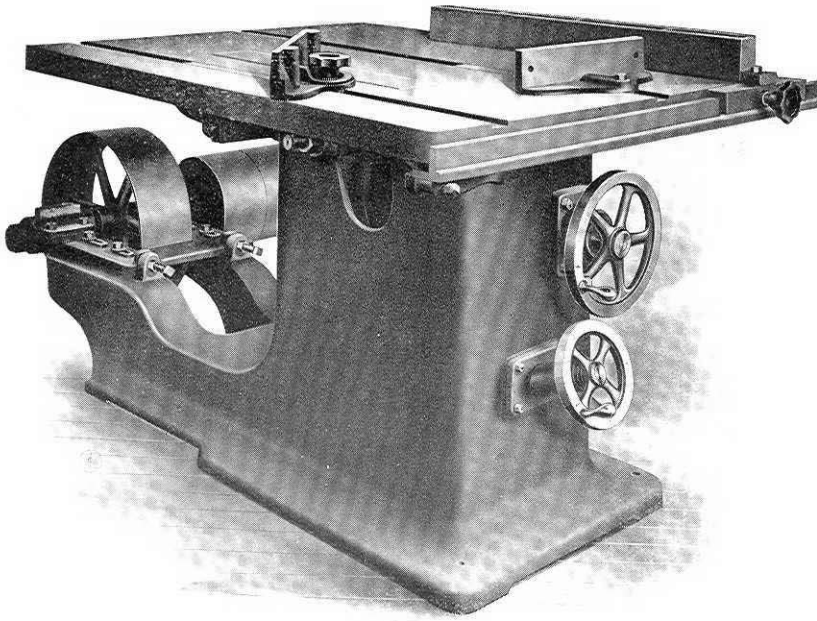
Table is iron, 37"x44"; takes in 16" between saw and fence, can be tilted to 45 degrees by hand wheel and screw, has groove on both sides of saw for cross-cut fences, and is fitted with a removable iron throat piece 7" wide, so grooving saws can be used. Table is raised and lowered on a level by large hand wheel operating screw, resting on ball bearing collar. Saws up to 14" diameter can be used. Saw arbor is $1\frac{1}{8}$ " diameter where saw fits and has drive pulley $3\frac{1}{4}$ " diameter by 5" face. Weight 1000 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 10"x5" — 700 R. P. M.

No. 11 TILTING TABLE VARIETY SAW.

Same design as above machine but heavier, larger and more powerful. Will carry a 20" saw and takes in 25" between saw and fence. Saw mandrel pulley is 5"x5".

EQUIPMENT.

Furnished with one each 12" rip and cutoff saw, one rip, one bevel and one solid cross-cut fence and countershaft. Can also be fitted with boring attachment at extra cost.

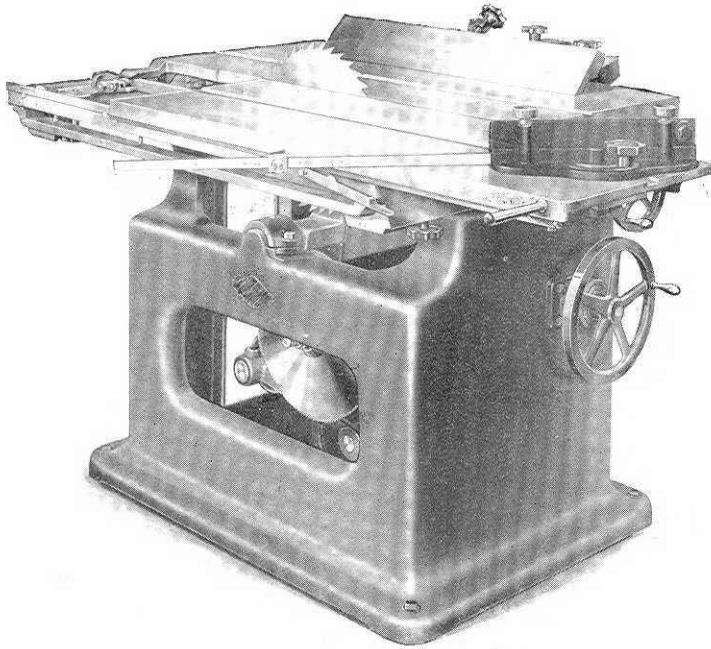


No. 8 TILTING TABLE VARIETY SAW.

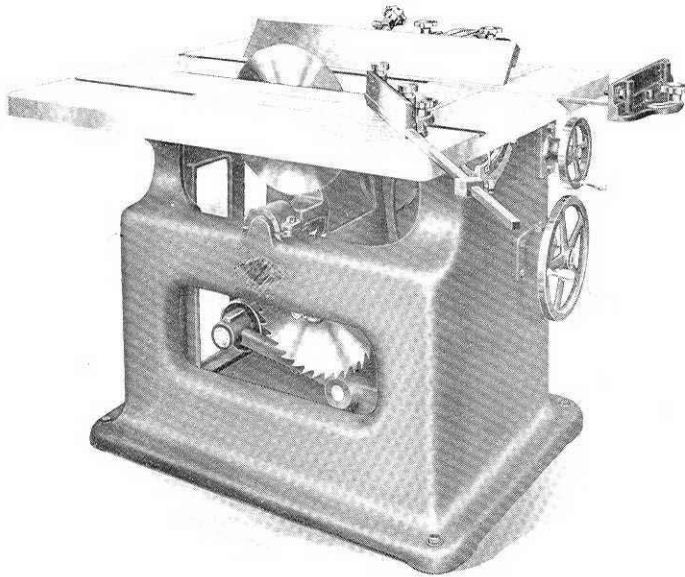
Table is iron, 34"x44"; takes in 20" between saw and fence, can be tilted to 45 degrees by large hand wheel operating screw, has grooves on both sides of saw for cross-cut fences and is fitted with removable wooden throat piece, so grooving saws can be used. Saws up to 20" can be used. Saw arbor is raised and lowered by hand wheel and screw. Saw arbor is 1 $\frac{1}{8}$ " diameter, where saw fits on and drive pulley 5" diameter x 5 $\frac{1}{2}$ " face. Countershaft boxes adjustable for taking up stretch of belt. Weight 1300 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 10"x5" — 700 R. P. M.

EQUIPMENT.

Furnished with one 14" rip saw, one rip and one bevel and one solid cross-cut fence. Can also be fitted with boring and hollow chisel mortising attachments at extra cost.



No. 13 Double Revolving Arbor Saw, with roller table.



No. 13 Double Revolving Arbor Saw, with plain table.

No. 13 DOUBLE REVOLVING ARBOR SAW.

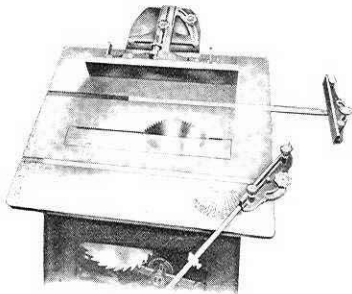
This machine has two saw arbors, one for ripping and one for cross-cutting, fitted to a revolving frame that is controlled by a hand wheel under table operating worm gear. Change from rip to cross-cut and vice versa made in a few seconds. Saws 16" diameter can be used and placed any distance above table up to $4\frac{1}{2}$ ".

The iron table measures 36"x44", takes in 20" between saw and fence and is made either solid or in two sections, the left section being 16" wide and running easily on rollers. This movable table travels 36" and can be separated a distance of 2" from stationary table for dado heads. The large hand wheel in front of frame is for tilting table up to 45 degrees.

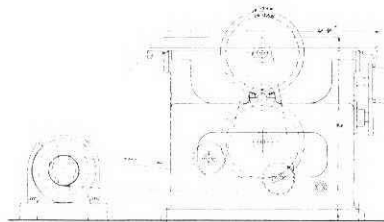
Weight 1800 lbs. Requires 5 Horse Power. Tight and Loose Pulleys 10"x6" — 525 R. P. M.

EQUIPMENT.

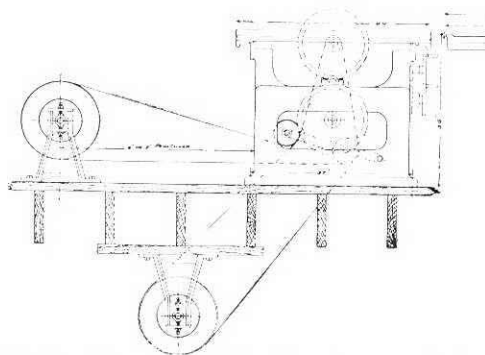
Furnished with one each 14" rip and cross-cut saw and countershaft with shifter. One ripping fence, adjustable to 45 degrees in a vertical plane and 20 degrees in a horizontal plane, right or left. Two mitre cross-cut fences, with adjustable stops, also yoke for connecting both cross-cut fences, and necessary wrenches.



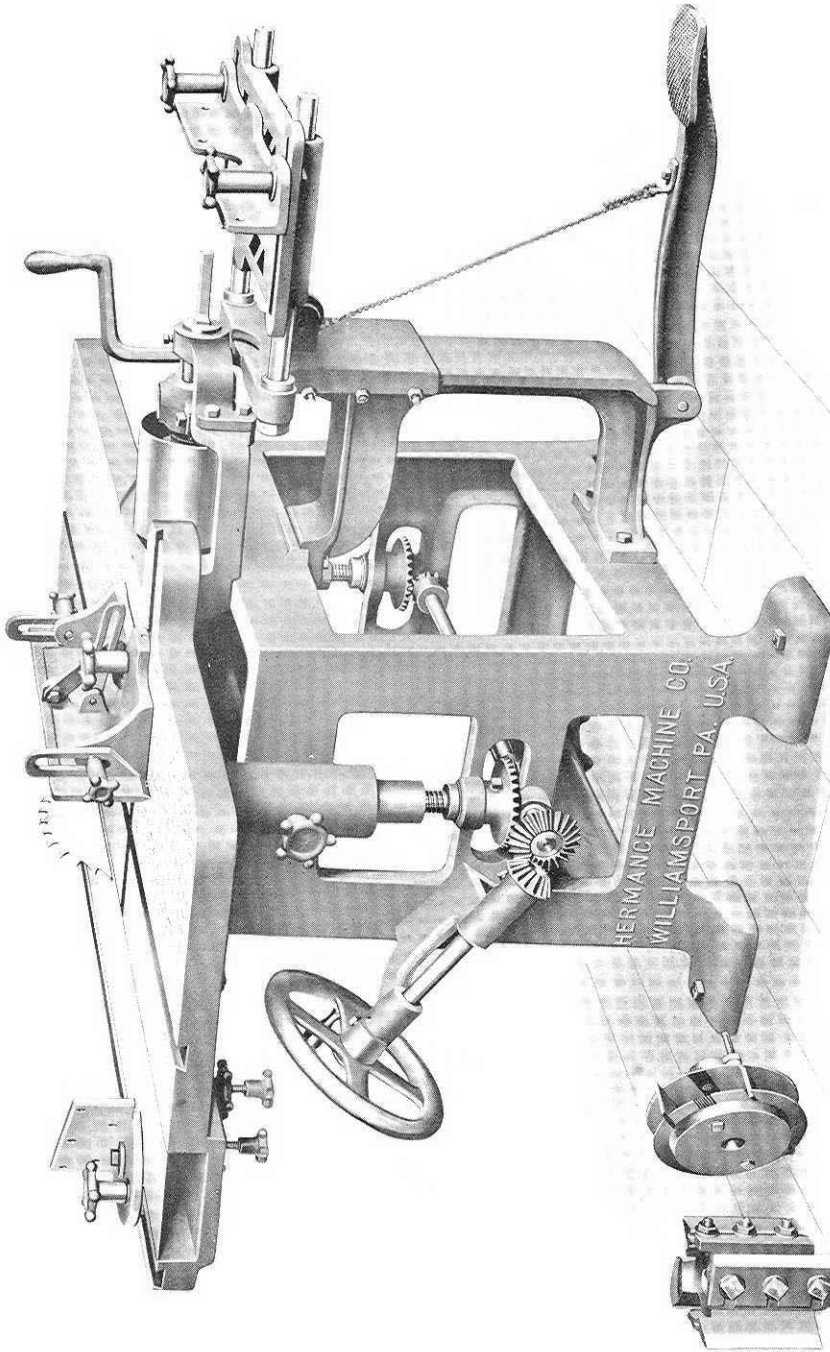
Showing Table Tilted.



Showing Motor Drive.

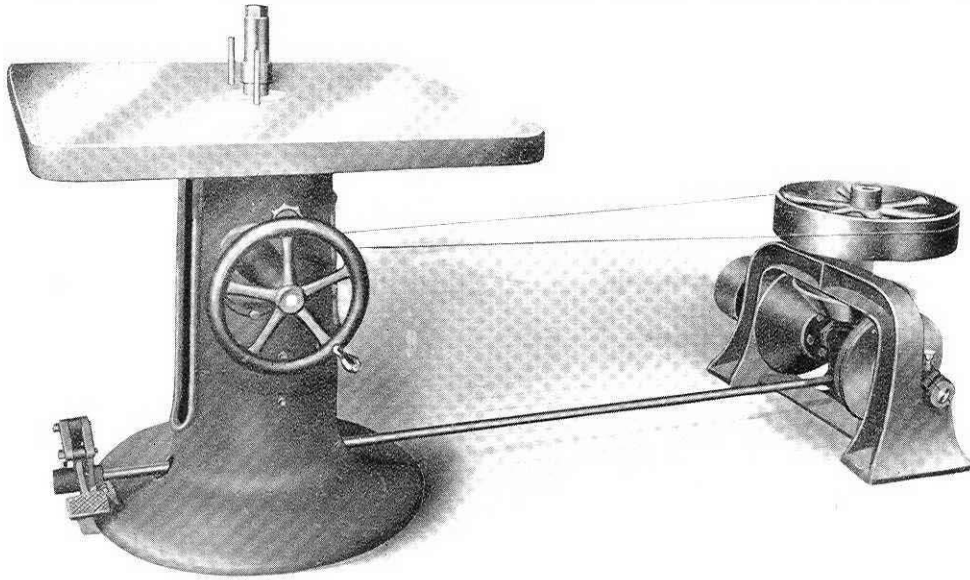


Can be driven with countershaft either above or below floor.



NO. 1 UNIVERSAL SAW AND DADO MACHINE. Adapted for ripping, cross cutting, jointing up to 6" wide, gaining, grooving, boring and hollow chisel mortising. The table measures 30"x64" and is raised and lowered on a level by large hand wheel operating two screws. This large table is fitted with two separate sliding tables 7" wide, the rear sliding table being adjustable to regulate depth of cut when doing jointing. Both sliding tables can be removed for wood throat pieces. The mandrel revolves in three bearings. Weight 1300 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 9"x5" — 900 R. P. M.

EQUIPMENT. When furnished complete we include a countershaft, one each 14" rip and cross-cut saws, one tilting rip saw fence, one bevel cross-cut fence, one 6" jointer head, one dado head with set of knives for cutting five different widths, one boring attachment with one universal chuck and one 1/2" auger bit, one hollow chisel mortising attachment, with one 5/8" chisel with bit.



Single Spindle Shaper with Friction Countershaft.

SINGLE SPINDLE SHAPER.

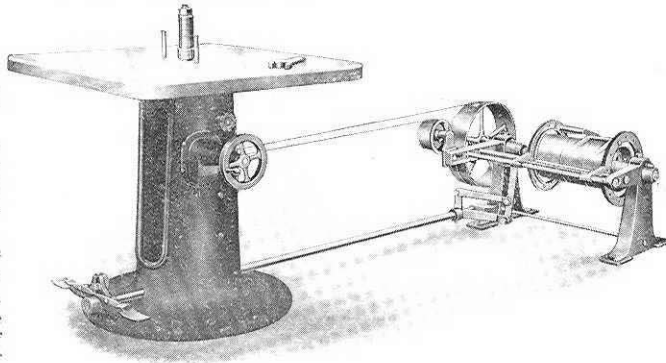
The iron table is 36"x36", the center hole is 5" diameter and fitted with reducing rings.

The spindle is $1\frac{3}{8}$ " diameter below table and $1\frac{1}{8}$ " above, or any size desired. The spindle is adjusted vertically by large hand wheel operating a screw.

The friction countershaft consists of two paper cones held with iron flanges and a center cast iron cone. The paper cones are shifted to the right or left by treadle in front of machine, which changes direction of spindle.

The belt reverse countershaft is also controlled by treadle in front of machine and is self-locking.

Weight 1100 lbs. Requires 3 Horse Power. Drive Pulley and Tight and Loose Pulleys 8"x5 $\frac{1}{2}$ "—750 R. P. M.



Single Spindle Shaper with Belt Reverse Countershaft.

DOUBLE SPINDLE SHAPER.

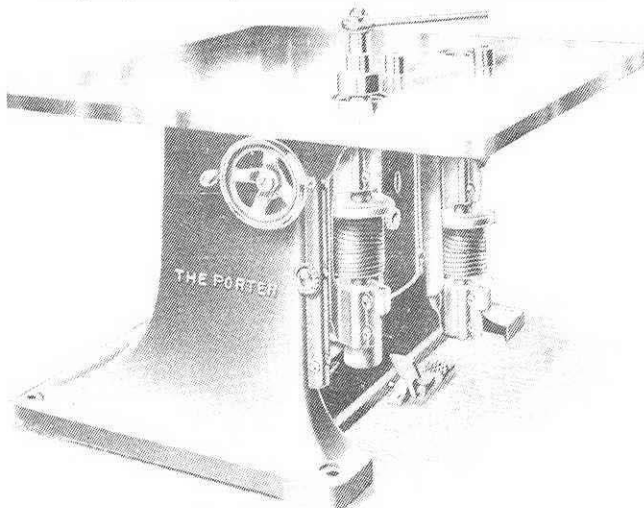
No. 0 Machine has iron table 56"x44". Spindles are 28" centers apart, $1\frac{15}{16}$ " diameter below table and $1\frac{1}{4}$ " above.

Weight 2500 lbs. Requires 7 $\frac{1}{2}$ Horse Power. Tight and Loose Pulleys 6"x9"—1000 R. P. M.

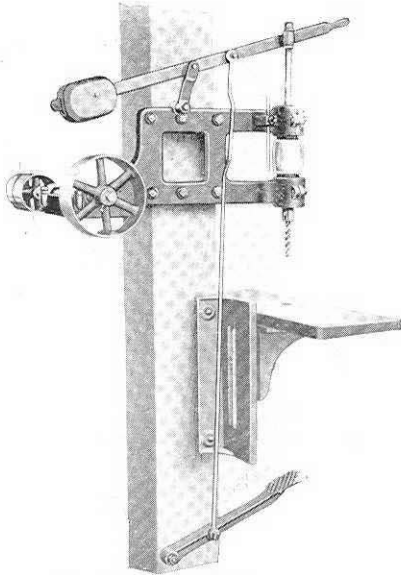
No. 1 Machine has iron table 50"x44". Spindles are 24" centers apart, $1\frac{11}{16}$ " diameter below table and $1\frac{1}{8}$ " above.

Weight 2000 lbs. Requires 5 Horse Power. Tight and Loose Pulleys 5"x9"—1000 R. P. M.

We also have a lighter machine called No. 2. If wanted, ask for circular.



Double Spindle Shaper.



No. 7 Twist Belt Borer.

POST BORING MACHINES

No. 7. Twist Belt Post Borer.

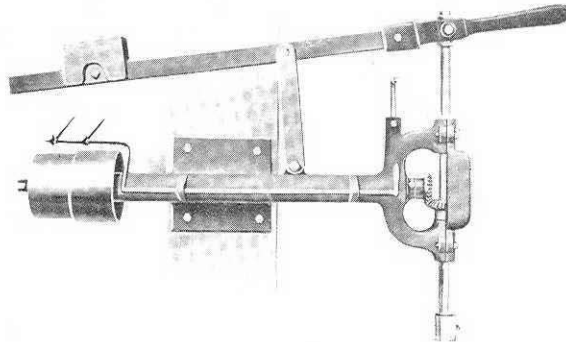
The spindle has a stroke of 10" and works up and down in a sleeve cast to the pulley. The table is 10"x18".

Weight 250 lbs. Requires 1 Horse Power. Tight and Loose Pulleys 6"x3"—500 R. P. M.

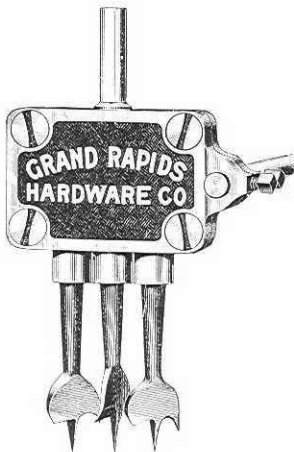
No. 8. Geared Post Borer.

The spindle has a stroke of 10" and works up and down in a sleeve cast to gear. Can also be furnished with a treadle and adjustable table, same as No. 7 Twist Belt Post Borer.

Weight 270 lbs. Requires 1 Horse Power. Tight and Loose Pulleys 6"x3"—1000 R. P. M.



No. 8 Geared Post Borer.

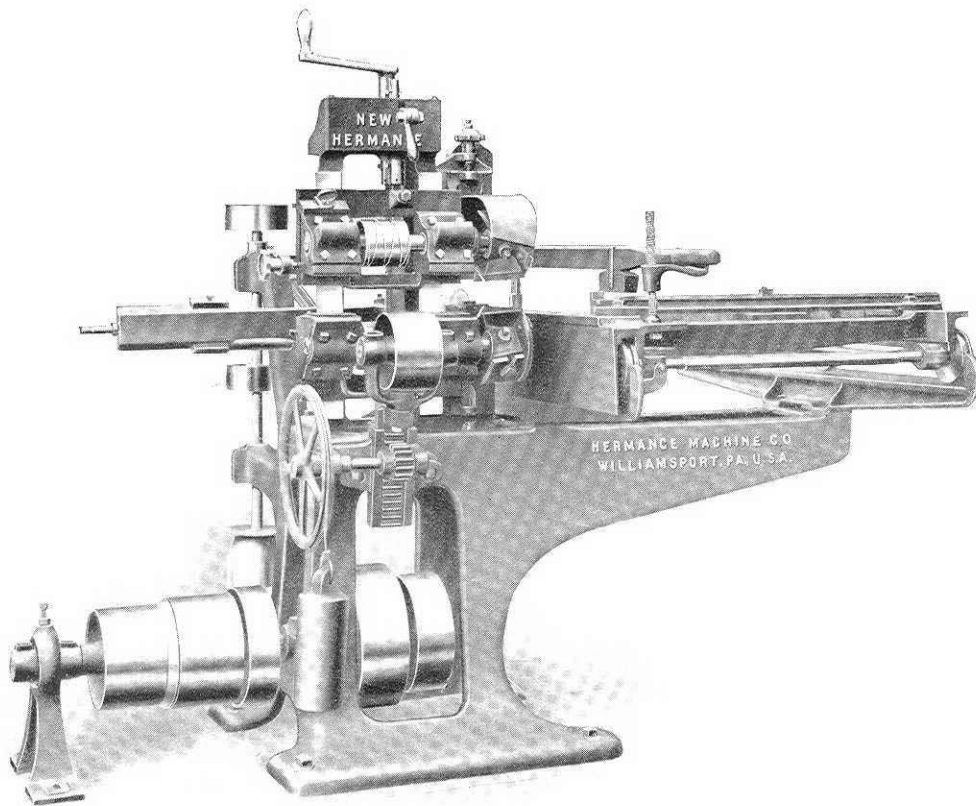


Triple Bit for Mortising for Sash Pulley.

Triple Bit for Mortising for Sash Pulleys.

No. 11. Bores three 1" holes, centers $\frac{3}{4}$ " apart.

No. 9. Bores three $\frac{13}{16}$ " holes, centers $\frac{5}{8}$ " apart.



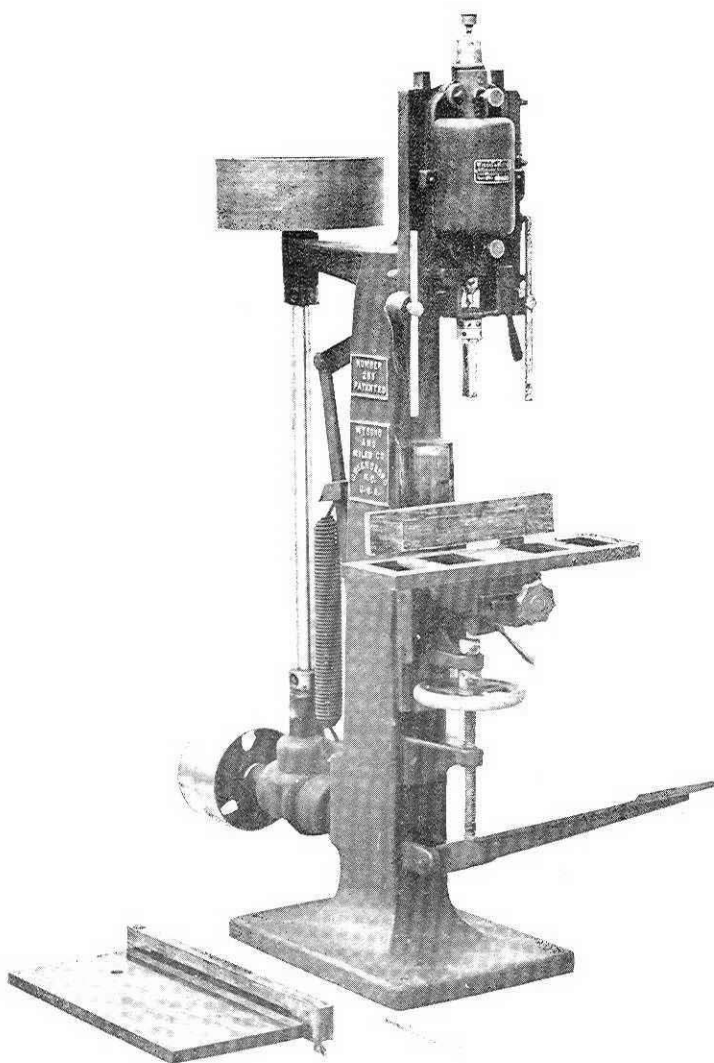
No. 3 TENONER.

This machine will cut a tenon $3\frac{1}{4}$ " long at one operation and 6" long by passing through twice.

The table moves very easily on a **double** roller carriage and has a travel to tenon stock 18" wide.

The machine is furnished with or without single or double copes. When desired, it is also fitted with a cut-off attachment in rear, the saw being adjusted with screw for different lengths.

Weight 1250 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 9"x5" — 900 R. P. M.



No. 255 HOLLOW CHISEL MORTISER.

Will handle chisels from $\frac{1}{4}$ " to $\frac{3}{4}$ " square.

The chisel plunger has an adjustable stroke up to 4", and a spring return.

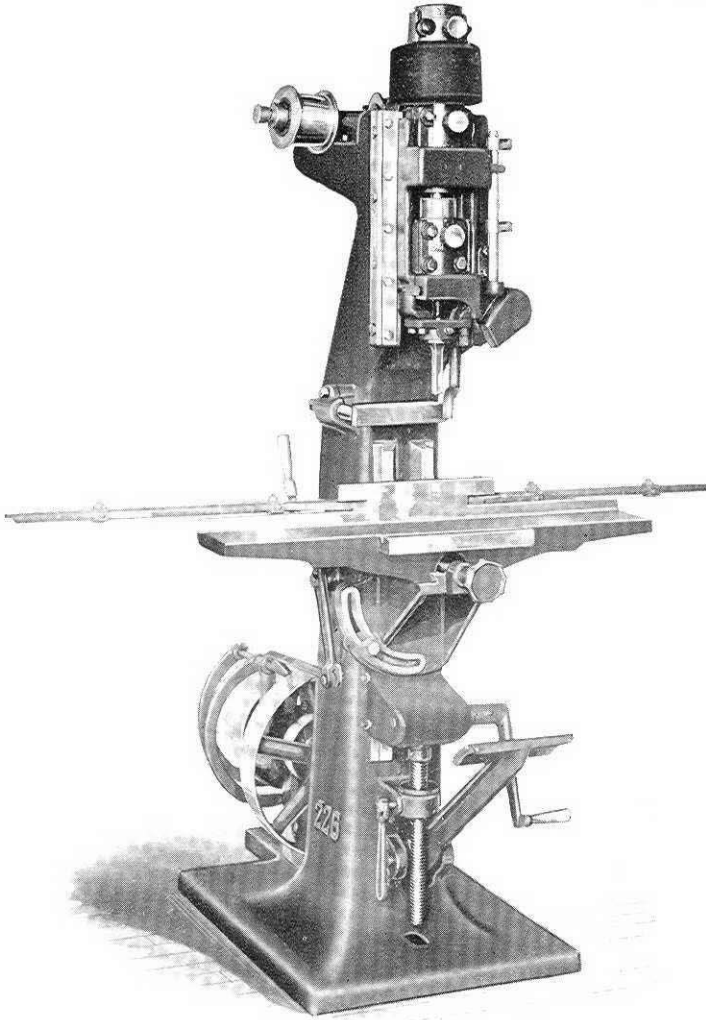
The auger bit has an end thrust, so it will not drive back; the chisel shank is threaded, so it can be adjusted in proper cutting relation with auger bit.

The tilting table will admit stock 12" high and will center 5".

Weight 625 lbs. Requires $1\frac{1}{2}$ Horse Power. Tight and Loose Pulleys $8" \times 2\frac{3}{4}"$ — 500 R. P. M.

EQUIPMENT.

Furnished with one $\frac{3}{8}"$ chisel and bit to mortise $2\frac{3}{4}"$ deep, one $\frac{3}{8}"$ boring bit and wrenches.



No. 226 HOLLOW CHISEL MORTISER.

Will handle mortising chisels from $\frac{1}{4}$ " to $\frac{3}{4}$ " square.

The chisel plunger has a maximum stroke of 4", but can be adjusted for a lesser stroke; it has a spring return. The auger bit spindle revolves in three bearings, its drive pulley stays in the same position. As the auger spindle runs at a high rate of speed, we drive with belt instead of gearing. The auger bit is fitted in an adjustable socket which permits exact setting relative to the cutting point of chisel and also gives the bit an end thrust so it will not drive back.

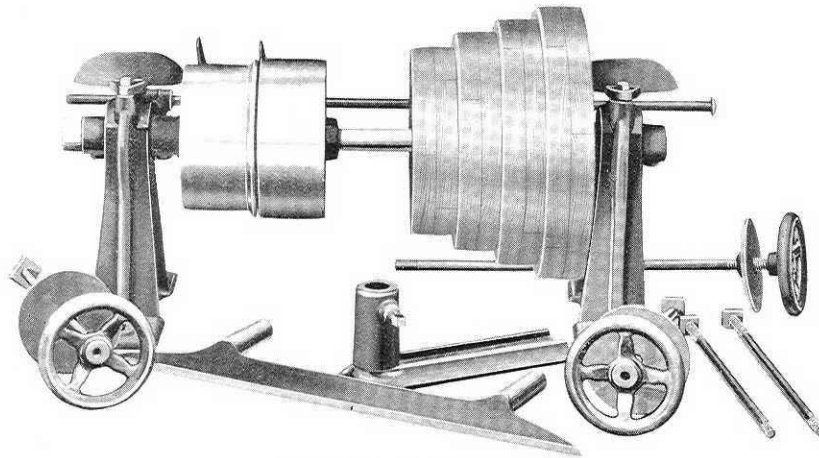
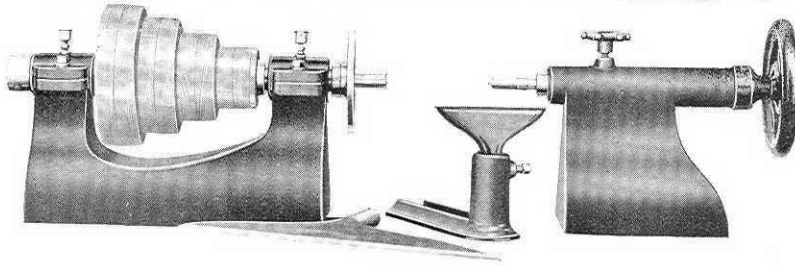
A fan is also fitted to rear of column which by means of pipe connections blows the chips from the work and keeps the chisel cool.

The tilting table is made plain, as cut shows, or with a clamp for holding work and with rack and pinion feed. This table will admit stock 12" high and will center 6".

Weight 1300 lbs. Requires 2 Horse Power. Tight and Loose Pulleys 10"x4" — 850 R. P. M.

EQUIPMENT.

Furnished with one each $\frac{3}{8}$ " and $\frac{1}{2}$ " chisel, 4" long, and bits to suit, one set (3) bushings for both chisel and end thrust for bits, adjustable stop rod with 6 stops and a set of wrenches.



WOOD LATHES.

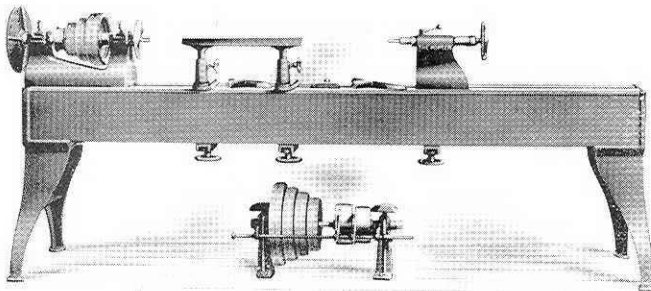
Single End Wood Lathes. 12", 14", 16", 20" and 24" Swing.

These Lathes are well built. The cones are made of built up sections of hardwood. Weight 500 to 600 lbs. Requires 1 to 3 Horse Power.

EQUIPMENT.

Single End Lathes are furnished with head and tail stock, countershaft with shifter, one face plate, 2 centers, one each 6", 12", 18" and 24" tool rest, 2 rest sockets, sufficient bolts, washers, nuts and band wheels to hold head and tailstock and rest sockets to bed. Double End Lathes are furnished as above, having in addition one extra large face plate. Floor Stand is extra.

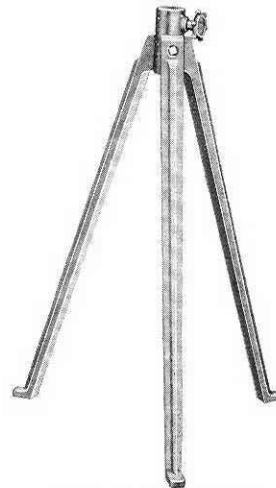
Iron Beds cost extra, depending on length.



Double End or Pattern Makers Lathes.

12, 14, 16, 20 and 24 swing.

Iron Lathe Beds made any length from 6 ft. up.



Style A, Floor Stand.

ARM SANDER, BORER AND STAIR ROUTER.

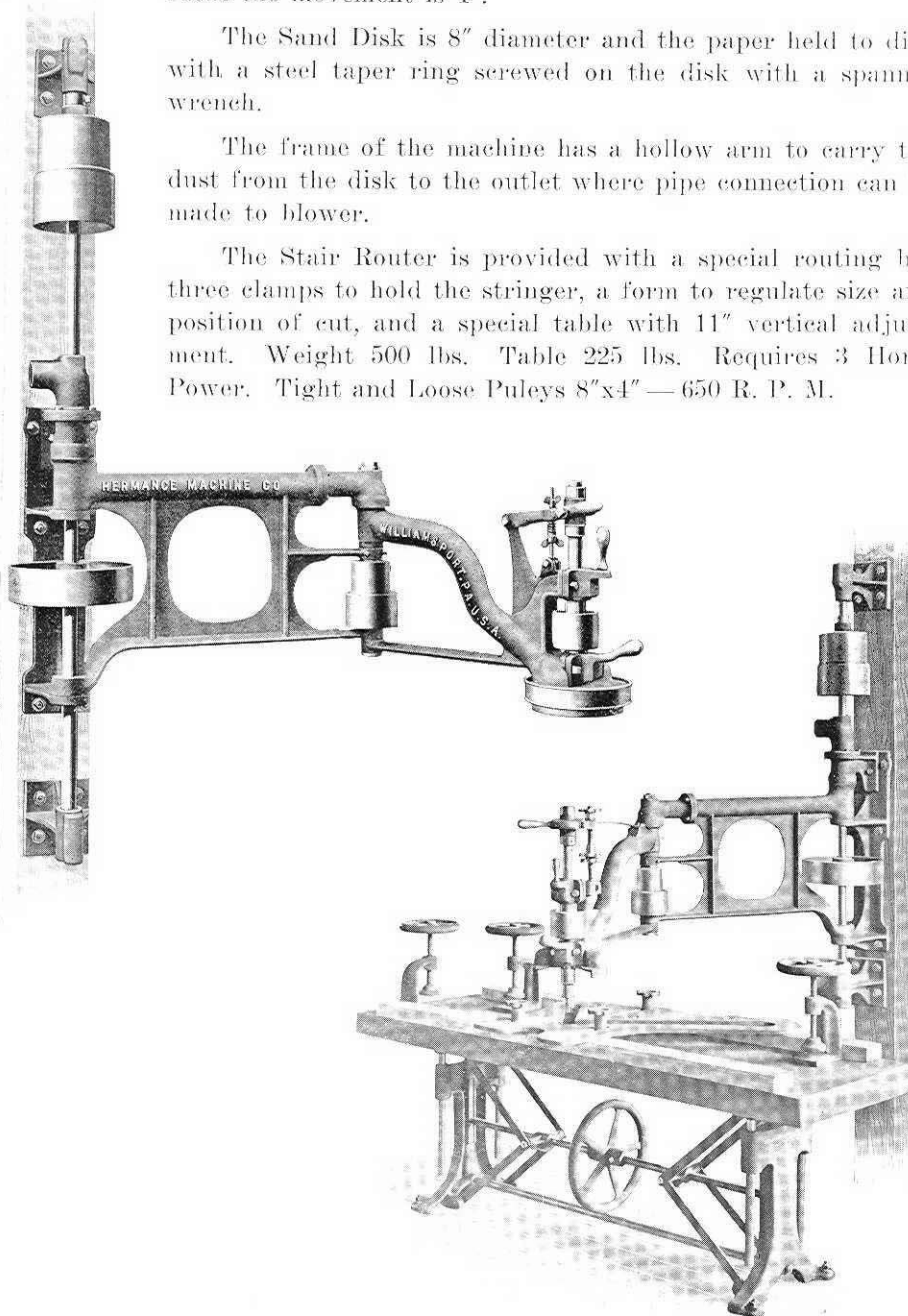
Built as a Sander only, Borer only, a Router only, or in any desired combination.

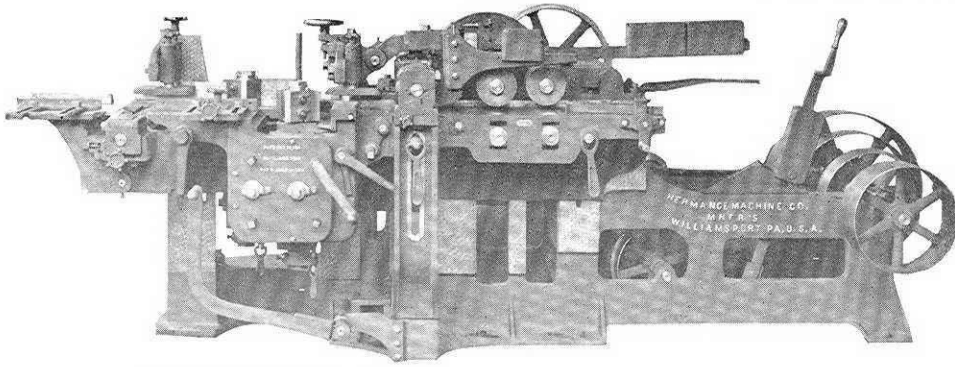
The Sand Disk Spindle has a vertical movement of $1\frac{1}{2}$ ", but when it is furnished in combination with a boring apparatus the movement is 4".

The Sand Disk is 8" diameter and the paper held to disk with a steel taper ring screwed on the disk with a spanner wrench.

The frame of the machine has a hollow arm to carry the dust from the disk to the outlet where pipe connection can be made to blower.

The Stair Router is provided with a special routing bit, three clamps to hold the stringer, a form to regulate size and position of cut, and a special table with 11" vertical adjustment. Weight 500 lbs. Table 225 lbs. Requires 3 Horse Power. Tight and Loose Puleys 8"x4"—650 R. P. M.





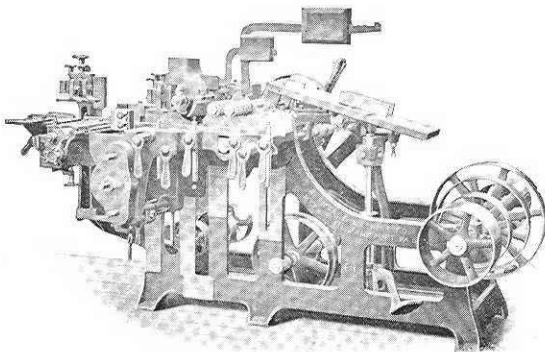
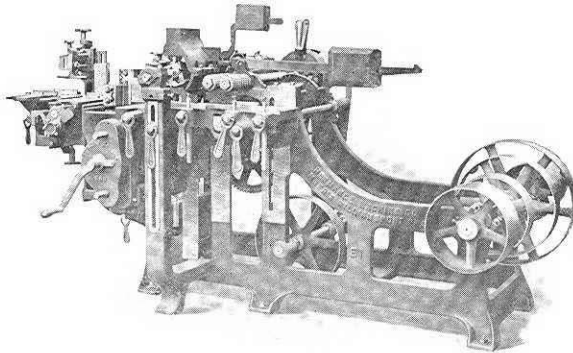
HERMANC 8", 10" and 12" MOULDERS.

These Moulders excel for smooth work, rapid feed and quick changes. The machines are very heavy and have extra long and wide one-piece frames so long wide belts can be used. The Feed Rolls are extra large diameter and all driven by an automobile chain—only two feed gears on the machine. The feed can be stopped and started either from the front or rear of the machine.

The Cutter Head Mandrels are larger than found on other machines and revolve in clamp journal boxes. Either Side Head can be moved in and out or tilted by screws, and clamped from the front of the machine. Side Heads are fastened to mandrel by split sleeves and run in perfect balance. One wrench fits all bolts and nuts.

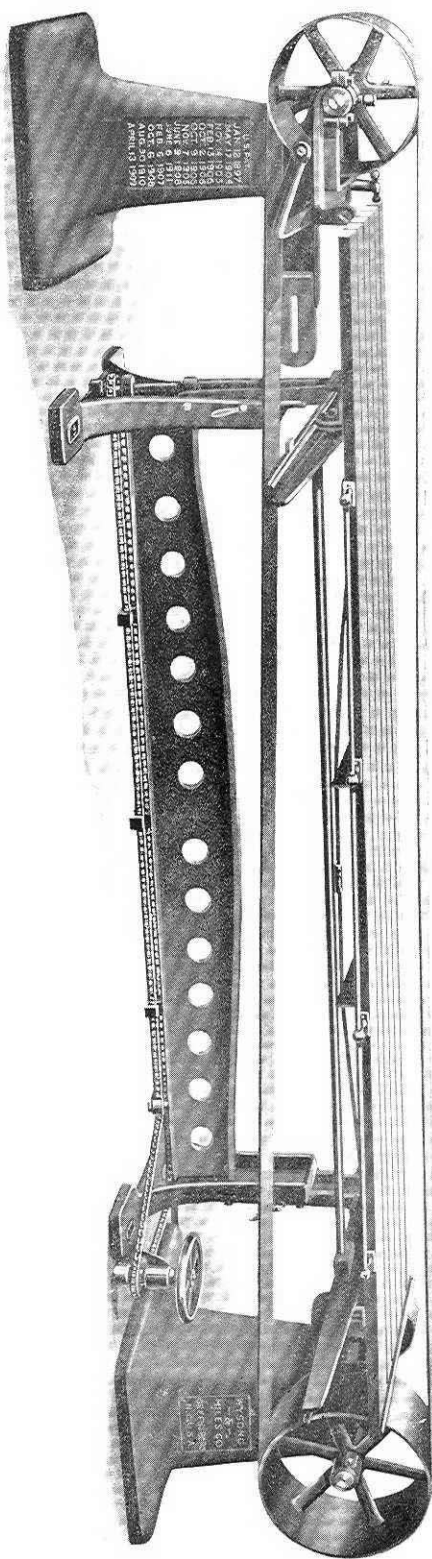
HERMANC 6" MOULDER.

An excellent machine for making small mouldings. The top and bottom feed rolls are power driven. Cutter Heads have every desired adjustment. Wrenches are attached to all bolts and nuts for quick adjustment. Made with one, two, three or four heads. Can be used for single or double sash and door sticking.



HERMANC No. 3 SASH STICKER.

Made as a one, two, three or four sided machine and with single or double plowing and boring attachments.



No. 171 BELT SANDER. (Patented.)

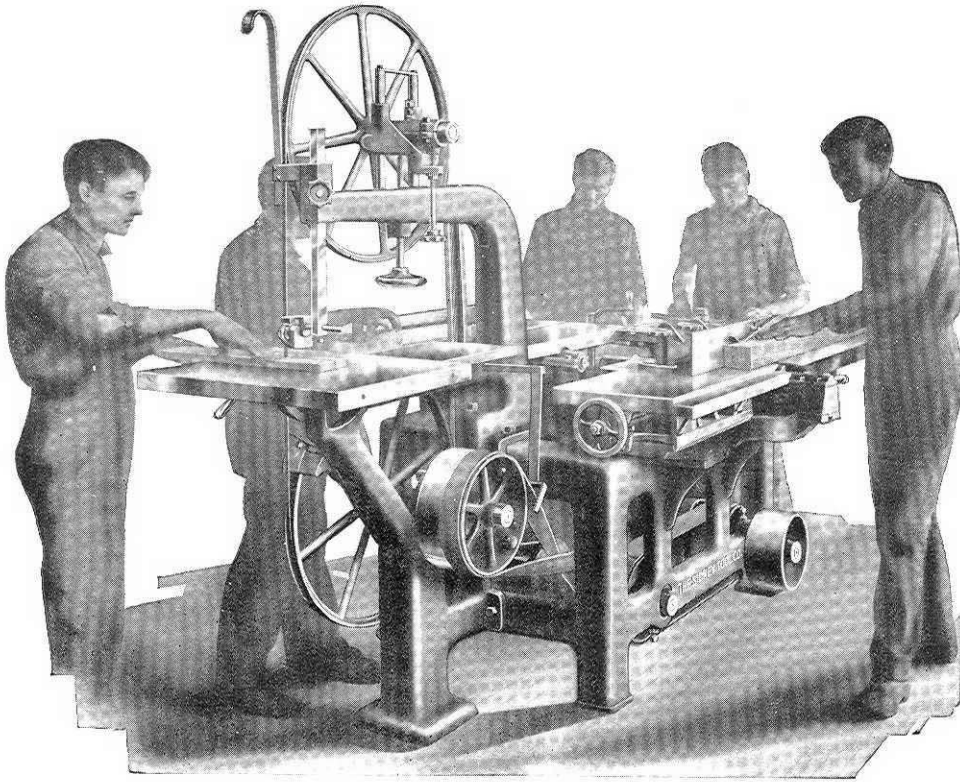
This machine is not only intended for flat surface sanding, but is the only Sand Belt Machine that can be used successfully for sanding moldings and other irregular work. It will do a better job on flat work than can be done on a drum sander and compared with hand sanding will do from four to ten men's work.

It will handle any width belt up to 10".

The table moves easily on rollers and is made in four different lengths: 5½ ft., 8 ft., 11 ft. and 16 ft.

Weight 1900 to 2200 lbs. Requires 3 Horse Power. Tight and Loose Pulleys 10" x 4½" — 500 R. P. M.

We also have a No. 243 Belt Sander, sold extensively.



No. 30 UNIVERSAL WOOD WORKER

The picture shows how it is possible for five men to work on this Wood Worker without interfering with one another. Each man is doing a different operation and has complete and independent control of his part of the tool. The machine as shown in picture consists of a 32" Band Saw, 16" Jointer, Reversible Shaper, Variety Saw Table and Borer.

We also can furnish this Wood Worker at a lower price with a 27" Band Saw and a 12" Jointer.

With the Band Saw we can also supply at extra cost a resawing attachment.

With the Jointer we can furnish a round cylinder, a power feed planing attachment or a sanding drum.

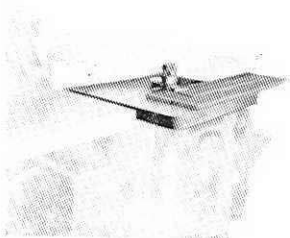
With the Reversible Shaper we can furnish a tenoning, panel raising or dovetailing attachment.

With the Variety Saw we can fit a grooving attachment.

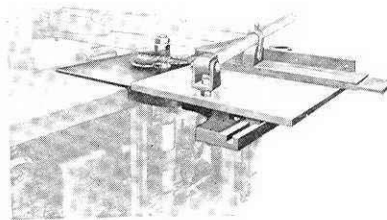
With the Borer we can supply a hollow chisel mortising attachment, a sand disk, an emery grinder for sharpening tools and also planer knives.

Weight 3200 lbs. Requires 5 to 7½ Horse Power. Drive Pulley 10"x5¼"—800 R. P. M.

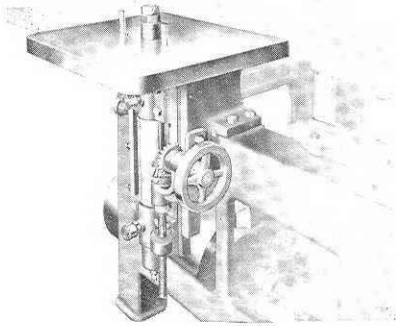
ILLUSTRATIONS SHOWING SOME ATTACHMENTS ON NO. 30 UNIVERSAL WOOD WORKER



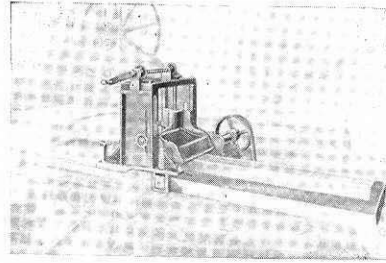
Panel Raising Attachment.



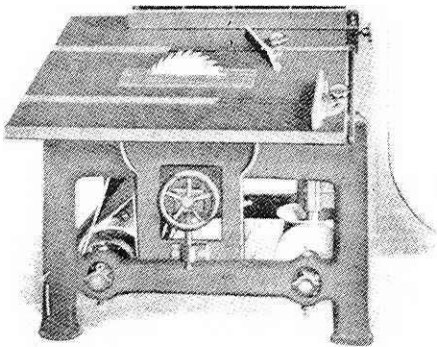
Tenoning Attachment,
cuts tenons 3½" long, ¼" to ⅝"
thick. Can also be fitted
with coping cutters.



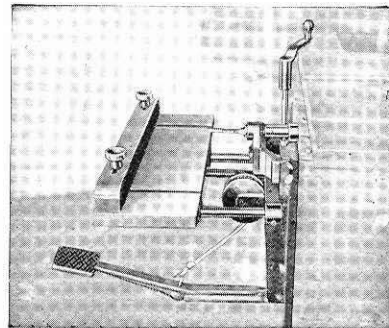
Reversible Shaper controlled by foot lever in front.



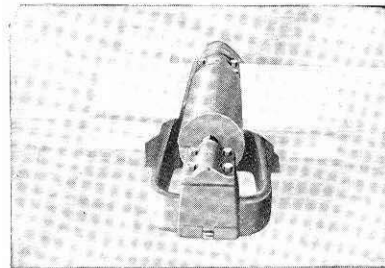
Power Planing Attachment,
will handle stock 12" or 16" wide
and up to 6" thick.



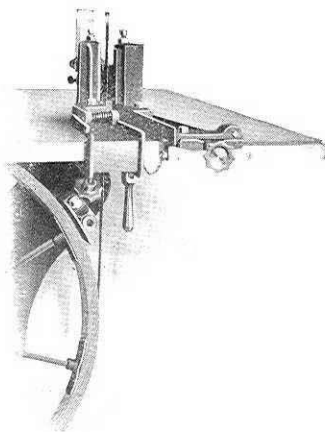
Tilting Saw Table, 28"x40",
Will carry a 16" saw or a dado head
2" wide.



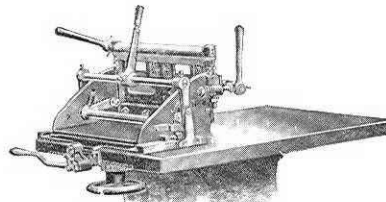
Boring and Hollow Chisel
Mortising Attachments.



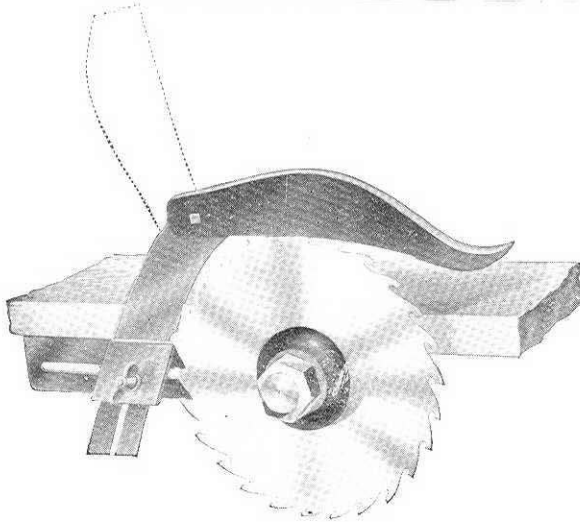
Drum Sander.



Resawing Attachment,
made for stock 10" or 16" wide.



Dovetail Attachment,
works 13" wide,
any thickness up to 1½".

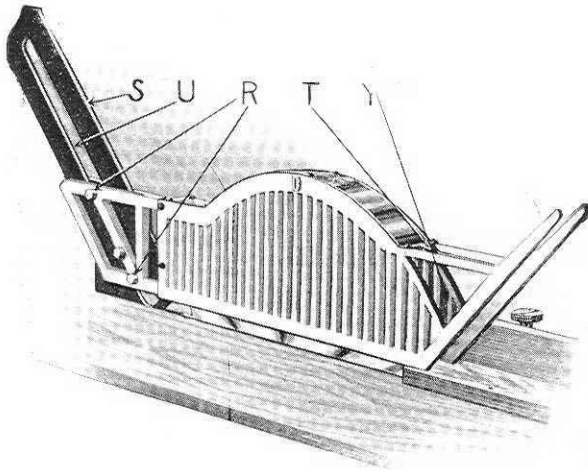


No. 1 CIRCULAR SAW GUARD.

This guard is easily attached to any saw bench. It gives sufficient protection for the operator and keeps the dust out of his eyes. It is adjustable for different thicknesses and is made in the following sizes:

Net Prices.

Size A 6-12" diameter...\$2.50
Size B 10-16" diameter... 2.75
Size C 14-20" diameter... 3.00



No. 3 SURTY CIRCULAR SAW GUARD.

This saw guard can be fitted to any machine and covers the saw, giving entire protection. The hood of this saw guard is made of aluminum and the front is open so that you get a full view of the saw for matching up and edging. The hood raises very easily for different thicknesses of the material, there being hardened steel rolls that work up and down in the slot of the supporting steel spreader. A "No-kick-back" dog is fitted on right hand side to prevent lumber flying back.

Net Prices.

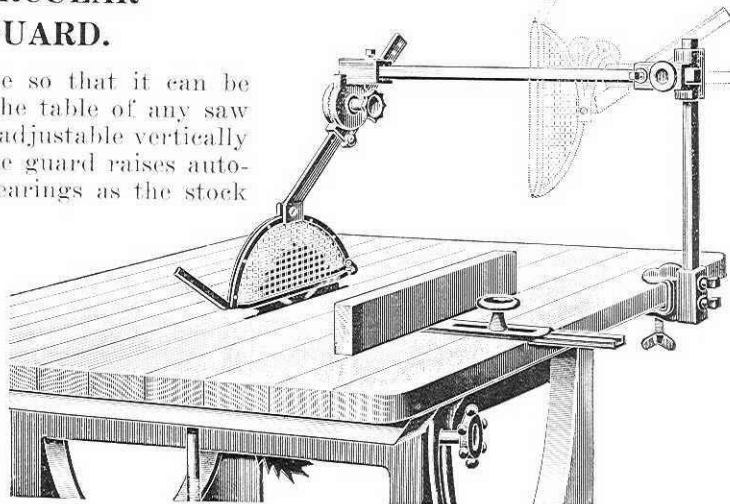
Size A, for saws up to 12" dia. \$10.00
Size B, for saws up to 14" dia. 12.00
Size C, for saws up to 16" dia. 14.00
Size D, for saws up to 20" dia. 16.00

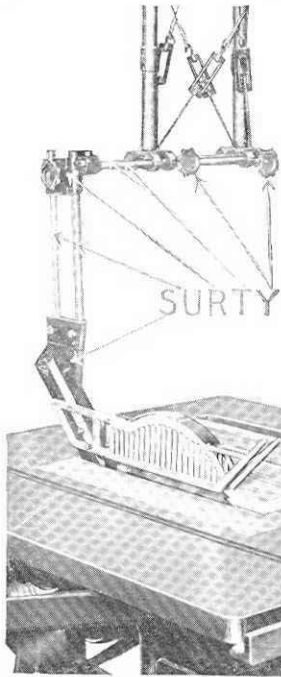
No. 5 CIRCULAR SAW GUARD.

This guard is made so that it can be quickly attached to the table of any saw bench. The guard is adjustable vertically and horizontally. The guard raises automatically on roller bearings as the stock is fed under it.

Net Prices.

Size A for 8", 12"
and 16" saws...\$15.00
Size B for 20" saw 16.50
Size C for 24" saw 18.00



**No. 11 SURTY OVERHEAD CIRCULAR SAW GUARD.**

This guard can be used on either a stationery or tilting table saw bench or where a supporting spreader cannot be fastened to the table. The hood is made of aluminum and raises as the work is pushed under it on hardened steel rollers. A large cut of this hood is shown on page 32. This hood has a vertical and horizontal adjustment and can be instantly swung out of the way.

Net Prices.

Size A—For 12" saws projecting through the table 3" or less. \$13.50

Size B—For 14" saws projecting through the table 4" or less. 14.50

Size C—For 16" saws projecting through the table 5" or less. 15.50

Size D—For 20" saws projecting through the table 6" or less. 16.50

The pipes to support this hood are ordinary 1" pipes and are not included in the prices of the guard.

No. 4 JOINTER GUARD.

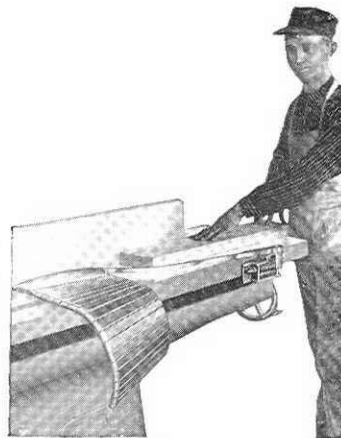
This guard does not interfere in the least with the movement of the operator. It adjusts itself automatically to suit the width of board being planed and the knives are always guarded. If desired, the guard can be set to keep open a certain width when the same size stock is being planed. The guard can be instantly removed.

Net Prices.

For machine with table up to 18" wide.... \$15.00

For machine with table up to 24" wide.... 18.00

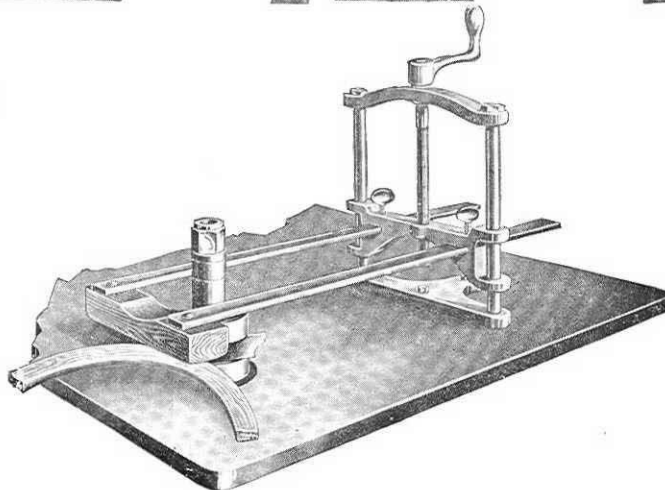
For machine with table up to 30" wide.... 20.00

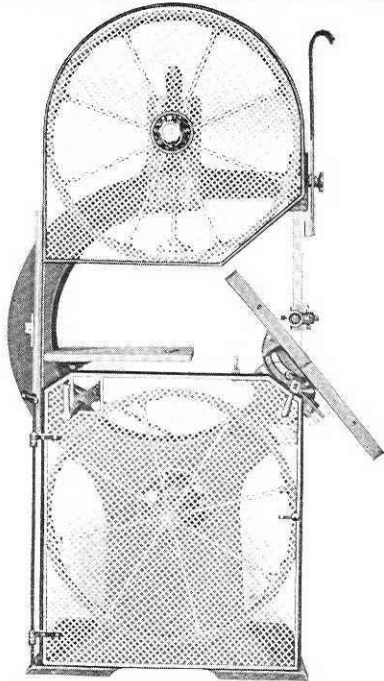
**No. 8 SHAPER GUARD.**

This Guard is patterned after the old "Home Made" Guard used by many operators, but is made in a mechanical manner. It can be quickly removed from table by loosening two cap screws. The steel tempered springs can be moved in and out independently to suit any style or position of hold down. The height and pressure of the hold down is regulated by a crank handle screw.

Net Price.

\$7.50 each or \$15.00 pr. pair



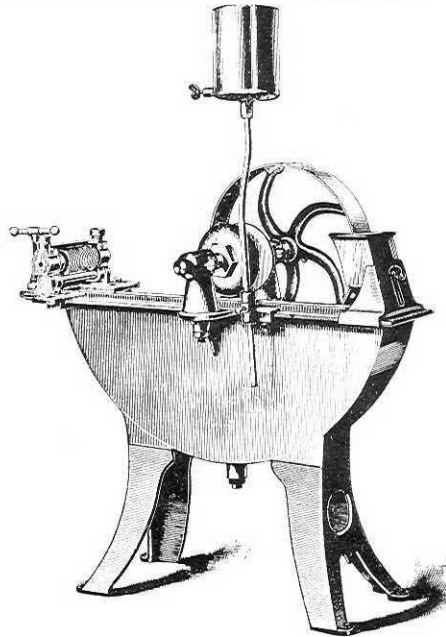


CHICAGO BAND SAW GUARDS

This guard is strong and of a neat appearance. It consists of two steel frames covered with heavy wire screen so operator can see the working parts of the machine. Both the top and bottom wheel guard is hung on two supports so they cannot sag. Top wheel guard is adjustable vertically to accommodate different length saws. Both guards can be swung aside for changing saws.

Net Prices.

Lower wheel guards for 27", 32" or 36" band saw, each.....\$8.00
Upper wheel guards, each..... 7.00



GRINDSTONE FRAMES.

Furnished with adjustable tool rest, truing attachment and waterpot.

No. 1 Grindstone Frame

Weight 175 lbs. Takes stone 30"x4".
Pulley 15"x3".

Price Net \$18.00 without stone.

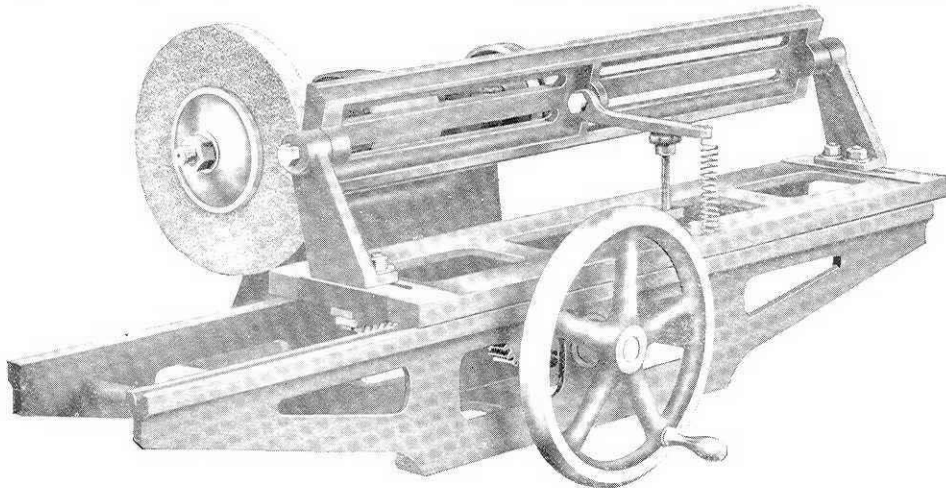
No. 2 Grindstone Frame

Weight 500 lbs. Takes stone 42"x6".
Pulley 20"x5".

Price Net \$45.00 without stone.

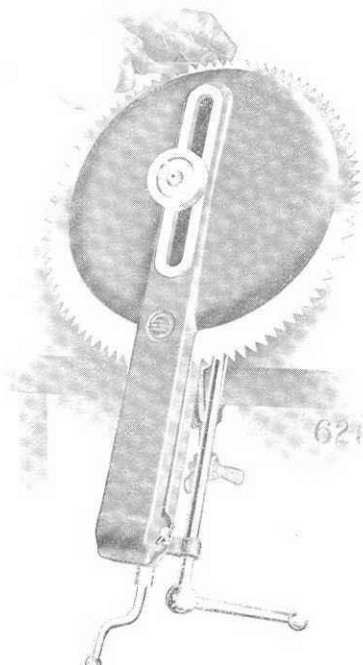
Net Prices Stones Hung in Frames

24"x4".....\$5.00	36"x6".....\$17.00
30"x4"..... 8.00	42"x6"..... 23.00



No. 2 HAND FEED KNIFE GRINDER.

This tool can be used either in connection with a grindstone or emery wheel. The knife can be set to grind any bevel desired and is fed by a spring device. The carriage will carry a knife up to 30" long and is fed back and forward by the large hand wheel shown. **Net Price**—Knife Grinding Attachment.....\$22.00 Bench Grinder included.....\$35.00



NEW BRITAIN CIRCULAR SAW FILING VISE.

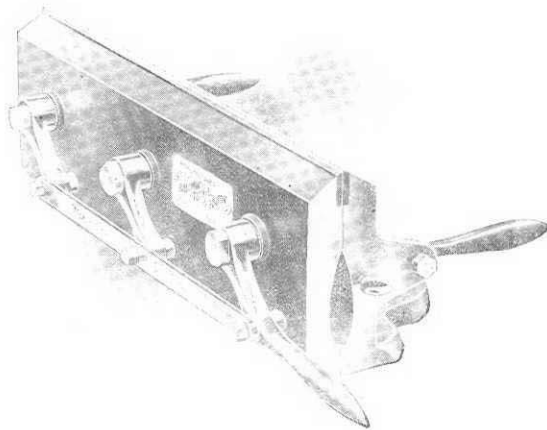
Holds saw steady, no noisy vibration when filing. Adjustable for tall and short men. Adjustments are made in front and man does not have to reach in back, cutting his wrists and clothing. Arbor pin is instantly adjusted and self-locking. Vise can be set upright or tilted so one can conveniently file bevel every other tooth on cross-cut saws. Adapted for saws up to 18" diameter.

Price net. \$12.00

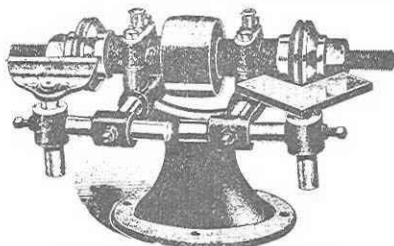
BAND SAW FILING VISE WITH STEEL JAWS

This vise will clamp saws from $\frac{1}{8}$ " to $2\frac{1}{2}$ " wide. It clamps the saw instantly with the single lever and holds it perfectly tight until released. There is a steel piece for the saw to rest on adjustable for different widths of saws.

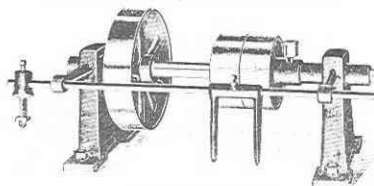
Net price. \$12.00



CHICAGO No. 3 EMERY GRINDER.



No. 3 Emery Wheel Head.



Countershaft.



Column.

This Grinder will run wheels up to 12" diameter, 3" wide. The mandrel is $1\frac{3}{8}$ " diameter in bearings and 1" diameter where wheels fit. Mandrel pulley is 4" diameter, 3" face, and should run about 1600 R. P. M. Countershaft has Tight and Loose Pulleys 5"x3" and should run about 650 R. P. M.

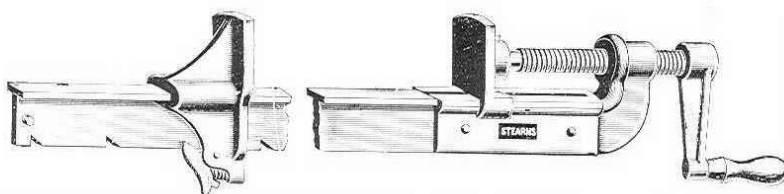
Net Prices.

No. 3 Emery Wheel Head. \$8.00
Countershaft 7.00
Column 6.50

Net Prices for Emery Wheels.

$\frac{1}{4}$ " wide, 10" diameter. \$1.50
 $\frac{3}{8}$ " wide, 10" diameter. 1.70
Above for Saw Gunning.
 $\frac{1}{2}$ " wide, 10" diameter. \$1.80
 $\frac{3}{4}$ " wide, 10" diameter. 2.50
1" wide, 12" diameter. 3.70
 $1\frac{1}{4}$ " wide, 12" diameter. 4.50
 $1\frac{1}{2}$ " wide, 12" diameter. 5.35

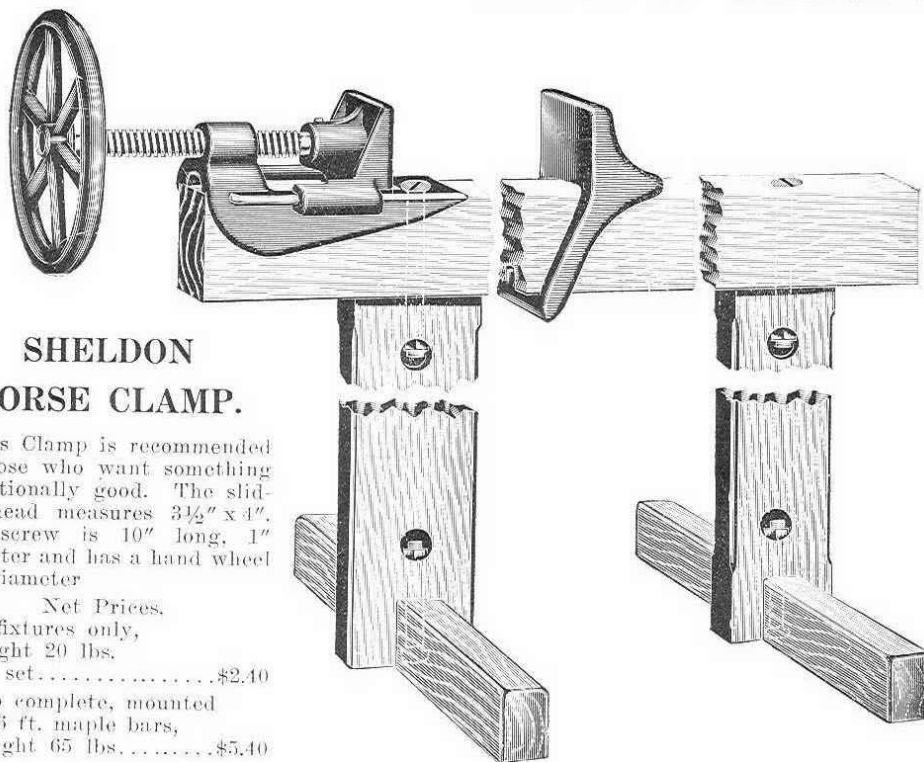
STEEL BAR CARPENTER'S CLAMP.



The T shaped bar is rolled from a special quality of steel, and while light in weight is very much stronger and stiffer than a flat bar; it is notched on the

lower side, giving great holding power. The screw is wrought iron with a deep cut thread. The head, crank, jaws and pawls are malleable iron. The sizes given below represent a maximum width of work which each size will take. **NET PRICES:**

$\frac{3}{8}$ " x $1\frac{1}{2}$ " bar, $\frac{5}{8}$ " screw.		$\frac{1}{4}$ " x $1\frac{3}{4}$ " bar, $\frac{3}{4}$ " screw.	
1 ft., per pair	\$1.90	3 ft., per pair	\$3.85
1½ ft., per pair	2.00	4 ft., per pair	4.55
2 ft., per pair	2.10	5 ft., per pair	5.25
2½ ft., per pair	2.65	6 ft., per pair	5.95
		7 ft., per pair	\$6.75
		8 ft., per pair	7.70
		9 ft., per pair	8.75
		10 ft., per pair	9.80

SHELDON
HORSE CLAMP.

This Clamp is recommended to those who want something exceptionally good. The sliding head measures $3\frac{1}{2}$ " x 4". The screw is 10" long, 1" diameter and has a hand wheel 10" diameter

Net Prices.

Iron fixtures only,
weight 20 lbs.

Per set.....\$2.40

Clamp complete, mounted
on 6 ft. maple bars,

Weight 65 lbs.....\$5.40

FACTORY TRUCK.

This is a strong truck. The frame is made of Michigan maple, with a center brace. The stake pockets and axle boxes are malleable iron.

Net Prices.

Both sizes 25x48".

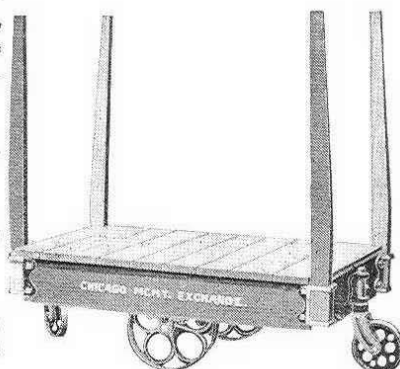
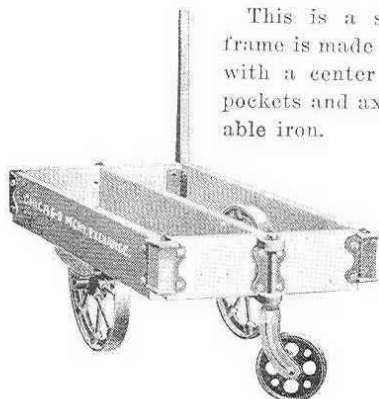
No. 2.

With Wheels
12" diameter,
each\$4.40

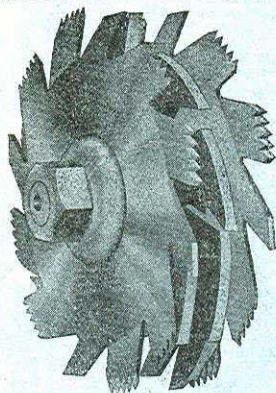
No. 3.

With Wheels
14" diameter,
each\$4.50

F. O. B. Michigan
factory.



ALL PRICES GIVEN BELOW ARE NET.



HUTHER PAT. DADO HEADS OR GROOVERS.

In Sets for Cutting
Grooves following
widths:

	6" Dia.	7" Dia.	8" Dia.	9" Dia.	10" Dia.	11" Dia.	12" Dia.
No. 1 Set, 1/8" to 3/8".....	\$5.80	\$6.80	\$7.60	\$8.35	\$9.15	\$9.75	\$10.85
No. 2 Set, 1/8" to 5/8".....	7.05	8.15	9.05	9.90	10.80	11.60	12.95
No. 3 Set, 1/8" to 3/4".....	8.65	9.85	10.85	11.90	13.00	13.90	15.45
No. 4 Set, 1/8" to 1".....	9.90	11.20	12.30	13.45	14.65	15.75	17.55
No. 5 Set, 1/8" to 1 1/2".....	12.40	13.90	15.20	16.55	17.95	19.45	21.75
No. 6 Set, 1/8" to 2".....	14.90	16.60	18.10	19.65	21.25	23.15	25.95

BAND SAW BLADES, BRAZED, SET AND FILED, READY FOR USE.

Lgt. Ft.	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"
14	\$1.00	\$1.00	\$1.15	\$1.20	\$1.40	\$1.55	\$1.70	\$1.90
16 1/2	1.20	1.20	1.35	1.40	1.65	1.80	2.00	2.20	2.55	3.10
18	1.25	1.25	1.40	1.50	1.75	1.90	2.10	2.30	2.70	3.25
19	1.30	1.30	1.45	1.55	1.85	2.00	2.20	2.45	2.80	3.40

BAND SAW RUBBER BANDS.

Wheels 27" dia., 1 1/2" face..\$2.00
Wheels 32" dia., 1 3/4" face.. 2.50
Wheels 36" dia., 2" face.. 3.00

BAND SAW ROLLER GUIDES.

For 27" Band Saw.....\$6.00
For 32" Band Saw..... 8.00
For 36" Band Saw..... 8.00

Silver Solder for Brazing Band Saws, \$1.00 per ounce.

CIRCULAR RIP and CUT-OFF SAWS.

Diam.	Gauge	Price
10"	16	\$1.65
12"	15	2.20
14"	14	2.65
16"	14	3.25
18"	13	4.00
20"	13	4.75

COMBINATION SAWS

Used for Both Ripping
and Cross-Cutting.

Diam.	Gauge	Gauge	Price
	at collar	at teeth	
10"	18	15	\$3.35
12"	17	14	4.15
14"	16	13	4.90
16"	16	13	5.80

SOLID GROOVING SAWS.

Thickness.

Diam.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"
6"	\$1.15	\$1.60	\$3.20	\$3.65	\$4.10	\$4.55	\$5.00	\$5.80
7"	1.35	1.85	3.60	4.10	4.60	5.10	5.60	6.60
8"	1.60	2.15	4.00	4.60	5.20	5.80	6.35	7.50
9"	1.90	2.50	4.50	5.15	5.80	6.45	7.15	8.40
10"	2.20	2.90	5.00	5.70	6.45	7.20	7.95	9.40

HOLLOW SQUARE CHISELS (4" Blade)

and Bits for same, with 6" Twist.

	No. 226 Mortiser.	No. 255 Mortiser.
1/4" size.....	\$2.60	\$4.15
5/8" size.....	2.85	4.15
3/8" size.....	3.00	3.95
7/8" size.....	3.30	4.16
1 1/2" size.....	3.55	4.41
5/8" size.....	4.00	4.92
3/4" size.....	4.75	5.44

AUGUR BITS

6" Twist, 1/2" Shank.

1/4"....	.32	1 1/8"....	\$0.70
5/8"....	.35	7/8"....	.75
3/8"....	.38	1 1/4"....	.80
1"....	.43	1"....	.85
1 1/2"....	.45	1 1/8"....	.95
1 3/4"....	.50	1 1/4"....	1.05
5/8"....	.55	1 3/4"....	1.15
1 1/8"....	.60	1 1/2"....	1.25
3/4"....	.65		

SELF-CENTERING CHUCKS

for holding Augur Bits

with Shanks up to 1/2" Diam.

"Greenfield" Chuck, each..\$3.00
"Standard" Chuck, each... 4.00
"Jacobs" Chuck, each..... 6.30
Arbors fitted to Standard
Chucks, extra..... .75

PLANER AND JOINTER KNIVES

3/8" thick or less, 4" wide or less.
6 1/4" to 31" long, per inch...\$0.12
Over 4" to 6 1/4" long, each.. .75
Over 2" to 4" long, each.... .62
2" long or less, each..... .50
Send pattern showing length,
width, thickness, bevel and slots.

MOULDING KNIVES

3/8" thick or less, with
edge worked to pattern,
5" wide or less,
per inch.....\$0.50
Minimum price per cutter .60
Send drawing with dimensions.

MOULDING CUTTER BLANKS

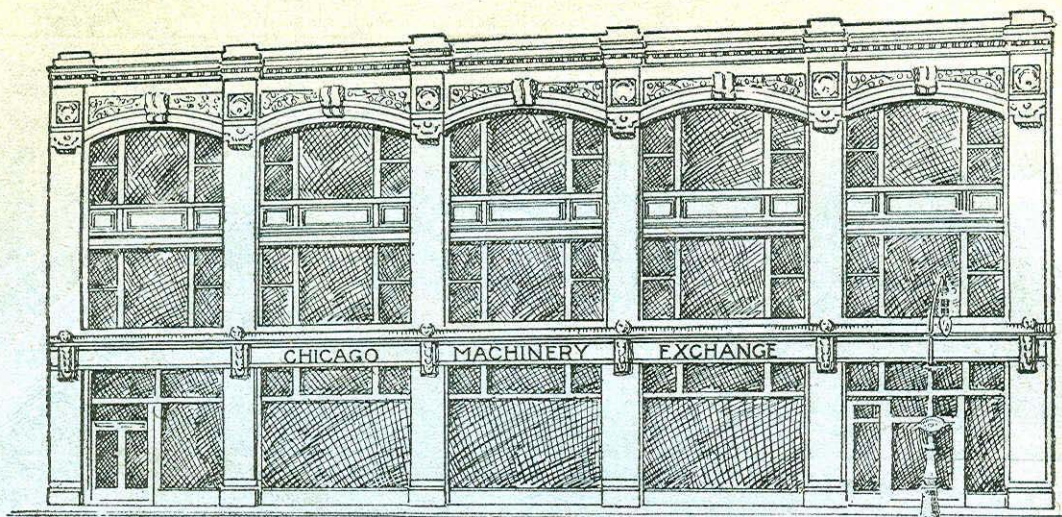
3/8" thick or less, 5" wide or less.
Not tempered.
2" long or less, each.....\$0.25
2" to 3" long, each..... .36
3" to 4" long, each..... .50
4" to 5" long, each..... .60
5" to 6" long, each..... .70

BEVELED SHAPER STEEL--Bars 24 in. long.

Width	1/4" Thick	5/16" Thick	3/8" Thick
1/2"	\$.32	\$.37	\$.45
5/8"	.39	.45	.55
7/8"	.52	.61	.70
1"	.60	.70	.78
1 1/8"	.64	.76	.91
1 1/4"	.70	.85	1.03

Width	1/4" Thick	5/16" Thick	3/8" Thick
1 1/2"	\$.81	\$1.04	\$1.16
1 3/4"	.95	1.21	1.38
2"	1.12	1.40	1.54
2 1/4"	1.30	1.58	1.74
2 1/2"	1.42	1.81	2.00
2 3/4"	1.55	1.92	2.36
3"	1.75	2.22	2.32

Get Our Low Prices on Belting, Hangers, Shafting and Pulleys.



OUR STORE 100 x 200 FT.

Baxter D. Whitney & Son
Hermance Machine Co.
C. O. Porter Machinery Co.
McDonough Mfg. Co.
Pryibil Machine Co.
Greenlee Bros. & Co.
Wysong & Miles Co.
L. G. McKnight & Son

Peerless Surface Machine Co.
Beach Mfg. Co.
M. L. Andrew & Co.
Jackson & Church Co.
New Britain Mch. Co.
Black Bros. Machinery Co.
Michigan Truck & Lumb. Co.
E. B. Hayes Mch. Co.

CHICAGO MACHINERY EXCHANGE

Manufacturers and Dealers

WOOD - WORKING MACHINERY

1219-1227 Washington Blvd.,

CHICAGO, ILLS.

Post Card

Place
One Cent
Stamp
Here

Chicago Machinery Exchange

Specialists in

Woodworking Machinery

1219-1227 Washington Boulevard

Chicago, Illinois.

Long Distance Phone: Monroe 5188

Tell Us About Your Wants in Woodworking Machinery

*We are (or expect to be) in the market for the following
Woodworking Machinery, - New or Rebuilt:*

We have for sale or exchange:

Name _____

Address _____

Town _____ *State* _____

Date _____ *191* _____