

# Modaana Hetal Maranagaranta



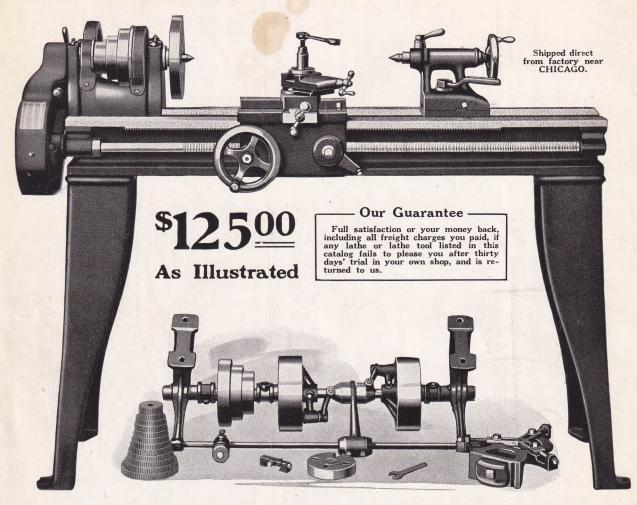




Sears, Roebuck and Co. CHICAGO-PHILADELPHIA

## Our "Garage Special" Produces Profits

Only to Be Compared in Value With Lathes Ordinarily Sold at \$200.00 or More



#### Screw Cutting Engine Lathe — 10-Inch Swing — 4-Foot Bed

Designed and manufactured exclusively for us to meet the demand for a sturdy, practical, accurate and economical lathe capable of handling the thousand and one metal working jobs that come to garage, machine and repair shops.

#### A GUARANTEED QUALITY LATHE AT A REMARKABLE PRICE.

A screw cutting engine lathe for the garage, machine and repair shop, for electrical work, or any place where fine, accurate machine work is required. The headstock is equipped with an improved reverse, the spindle cone has three steps for 1-inch belt, spindle has ¾-inch hole and the centers are No. 2 Morse Taper. The bearings are the best phosphor bronze and are adjustable for wear.

The tailstock is offset to allow compound rest to swivel parallel with the bed and is provided with set over for turning

The carriage is fitted with a graduated compound rest which may be set on any angle for turning or boring. The feed of the carriage is operated by clamping the split nuts on the lead screw.

The lathe will cut threads from 4 to 40 right or left, including 11½-inch pipe thread, and by compounding gears many other threads may be cut.

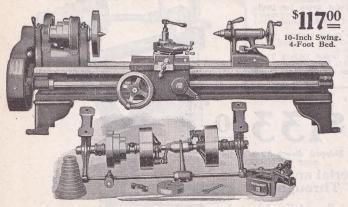
The equipment as shown in the illustration is included in the price of the lathe and consists of large and small face plates, compound rest, two steel centers, center rest, change gears for screw cutting, chuck back fitted to spindle nose, adjustable stop for screw cutting and double friction countershaft.

The lathe swings 10¼ inches over the bed. Length of bed is 4 feet, takes between centers 29½ inches and swings over the carriage 7¼ inches. Tool post takes ¾x½-inch tool; countershaft speed is 290 revolutions per minute. Approximate weight, crated for shipment, 500 pounds.

99M82751/3—"Garage Special," complete as illustrated. Price, shipped direct from factory near CHICAGO... \$125.00

## Accessories for Our "Garage Special" **Engine Lathes**

#### "GARAGE SPECIAL" BENCH LATHE



Regular equipment, same as described under illustration of "Garage Special" long leg lathe, is included in price of bench lathe. Approximate weight, crated for shipment, 450 pounds.

#### "Garage Special" Machine Shop Equipment

The "Garage Special" Machine Shop Equipment is a very desirable outfit for the garage, the electrical shop and battery service and ignition station, or in any shop where fine, accurate work is desired.

The chucks and tools specified below are the most practical sizes for the lathe for general use.

"Garage Special" Machine Shop Equipment.

99M82751/3—"Garage Special" Lathe, long legs...\$125.00 99M82341/3—6-Inch Four-Jaw Independent Chuck. Fitting Independent Chuck to lathe, using Machined Chuck Back which is furnished with regular equip-1.00

| Section | Sect

99M82761/3—Bench Lathe, as illustrated above, with short legs. \$117.00 | For Detailed Description of "Garage Special" Lathe See Opposite Page.

#### "GARAGE SPECIAL" CHUCKS. TOOLS AND DOGS. ETC.

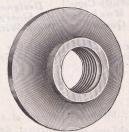


\$700 1/2-Inch.

#### "STANDARD" DRILL CHUCK

It is very powerful and guaranteed to hold true and not to injure the shanks of the drills. It holds round and square work. The jaws and screws are made from cast steel carefully tempered. The hole in the hub is made to fit taper arbor, which will fit both head and tail spindle of lathe. Price includes wrench

WICHOIL	Capacity	Diameter	Price, Each
99M82681/3	0 to 1/4 inch	13/8 inches	\$ 6.00
99M82691/3	0 to 3/8 inch	111/16 inches	6.50
99M82701/3	0 to ½ inch	23/16 inches	
99M82711/3	0 to 3/4 inch	27/8 inches	8.00
99M82721/3	0 to 1 inch	37/16 inches	10.00
Price for fitting	Drill Chuck t	o lathe, includ	ling arbor,
extra			\$2.00



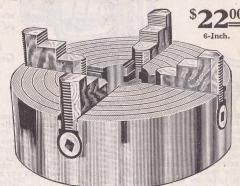
#### MACHINED CHUCK BACK

For Fitting Lathe Chuck to
Lathe Spindle.
One Machined Chuck Back is
included with regular equipment
of each lathe. When extra chuck
back is wanted, order as follows:
99M8232/s
Price, each \$2.00



CHUCK ARBOR Fitted to Lathe Spindle. Drill Chuck Arbor fitted to lathe spindle, but not fitted to

drill chuck. 99M82731/3—Each..\$1.50



#### INDEPENDENT LATHE CHUCK

With Four Independent Reversible Jaws.

This Chuck has four solid jaws with half nut, reversible by running out of chuck at the periphery, and turning end for end. Price includes wrench.

Rated Size Will Hold

	Mattu Dize		AA III TIOIG	
	of Chuck	No.	About	Price
99M82331/3	5 inches	300	7 inches	\$21.00
99M82341/3	6 inches	301	7½ inches	22.00
99M82351/3			83/4 inches	25.00
99M82361/3	8 inches	3021/2	9½ inches	26.00
Price for fit	ting Independe	nt Chuck	to lathe be	fore lathe
leaves factory,	using Machin	ned Chuck	Back furni	shed with
regular equipm	ent, extra			\$1.00

#### PATENT LATHE TOOLS

Each tool is carefully packed in a cardboard box and price includes one Drop Forged Wrench and one High Speed Steel Cutter, ground to shape.



#### TURNING TOOL

99M82541/3 No. 00-S. Size of shank,  $\frac{5}{16}$ x $\frac{3}{4}$ x $\frac{4}{2}$  inches. Size of cut-

inches. Size ter, 3/16 inch square. Price, complete .....\$1.80

**CUTTING-OFF TOOL** 

99M82551/3

No. 29-R. Size of shank, 5/16x3/4 inch. Size of blades, 5/64x ½ inch.

Price, complete .....\$1.90

#### **BORING TOOL**

Each set consists Each set consists of Holder and Bar, with straight and 45-degree End Caps, two High Speed Cutters (ground for boring) and a Double End Wrench.



These lathe dogs are heavy malleable iron with hardened tool steel set screw. Size, Price. Each Inches 1/4 99M82601/3 40c 99M82611/ 50c 99M82621/s 3/4 60c 99M82631/3 70c 80c 99M82641/3



inches. Price, per set .. \$3.95

LATHE DOGS

## Power Drills and Accessories

#### 20-INCH "EXPERT" POWER DRILL

Back Geared, Power Feed, Automatic Stop. Simple, Strong, Convenient, Economical.

#### 20-INCH "EXPERT" POWER DRILL

With Hand Lever Feed.

A Splendid All Around Drill at Low Cost.



sieeves as follows:
Sizes %-Inch and Smaller Order 9M5633 '4-Inch
Round Shank Drills and 9M5650 Standard Drill
Chuck and 9M5653 Chuck Shank.
Sizes 1, 1½ and 1½-Inch Order 9M5630 Taper
Shank Twist Drills and 9M5632 Steel Sleeve.
Sizes 1¾ and 1½-Inch Order 9M5630 Taper Shank
Twist Drills Only.

Shipped direct from factory near CHICAGO.

Shipped direct from factory near CHICAGO.

Best of Material and Workmanship Throughout

A Modern and Serviceable Tool for Any Shop at a Price Within Your Reach.

Designed So That Every Move Counts.

A Carefully Constructed Machine of High Quality.

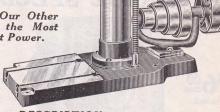
Finished in Dark Grav Gloss.

Especially Adapted for the Factory, Garage and Repair Shop.

All Parts Are Simple, Strong and Convenient.

Designed, Like Our Other Machinery, to Do the Most Work With the Least Power.

Highly Finished in Dark Gray Gloss.



DESCRIPTION.

DESCRIPTION.

Diameter of spindle in sleeve.15/16 inches Spindle socket.....No. 4 Morse Taper Drills to center of 21-inch circle.

Diameter of table.................16 inches Diameter of column......55% inches

Diameter crown gea...
Size of cone pulley:
8%, 7¼, 55% and 4x2½-inch face
Size of tight and loose pulley:
8x2½-inch face
12 ft 4 inches

Length of belt necessary. 12 ft. 4 inches Speed of countershaft.....380 R. P. M.

Shipping weight, 750 pounds.



Chuck Shank.

9M5653-Chuck Shank, has No. 4 Morse taper. For fitting standard Drill Chuck to Drill Spindle.

Weight, 1½ pounds.
Price for Chuck Shank only.....

..\$1.65

Steel Sleeve For Taper Shank Drills.

9M5632—Steel Sleeve, No. 3 to 4 Morse taper, for fit-ting No. 3 Morse Taper Drills to No. 4 Spindle Sockets. Weight, 13 ounces Weight, 13 ounc

Diameter in 64ths of inch Length, inches Price, each Diameter in 64ths of inch Length, inches

Taper Shank Twist Drills.

\$3<u>00</u> 11/4-Inch.

Sizes 1, 11/4 and 11/4-inch have No. 3 Morse taper and require a 9M5632 No. 3 to 4 Morse Taper Steel Sieeve to fit spindle socket.

9M5630-State size.

 
 Size
 1 in.
 1½ in.
 1½ in.
 1½ in.
 1½ in.

 Taper of Shank.
 No. 3
 No. 3
 No. 3
 No. 4
 No. 4

 Weight
 1½ lbs.
 1½ lbs.
 1½ lbs.
 2½ lbs.
 3½ lbs.
 4½ lbs.
 \$1.80 \$2.40 \$3.00 \$3.60 \$4.20

Round Shank Drill Bits.

\$6.95

WITH 1/2-INCH SHANKS. FIT ANY OF OUR BLACKSMITHS' DRILLS, 9M5633—All drills are ground to micrometer caliper gauge after tempering, sizes given are exact. Every bit thoroughly inspected and fully guaranteed.

State size. 5/32 3/16 7/32 1/4 -9/32 5/16 Size, inch .... Weight, ounces 17c 20c 23c 26c 29c 32c 35c 38c 41c 44c 47c 780 99c



Set \_\_ of 8

9M5635 Price, per set.\$2.85



\$195 Set of 6

Round Shank Drills. Set contains one each 3/16, 14, 5/16, 3/8, 1/4, 5/8inch. Weight, 11/4 lbs.

9M5634

#### Straight Shank Twist Drills.

\$600 brace. Must be used in a chuck made for round shank drills. The shank and twist are the same size. We recommend the purchase of a complete set with stand, as this is the handlest way to keep drills. Stand has a hole for every size drill with size marked near it.

9M5629—Set of 29 Straight Shank Twist Drills, size ½6 to ½6 to ½6 to 100 to

...3c



9M5627—Straight Shank Twist Drills. 5 25/8 4c 16 4 23/4 5c 18 41/4 14c 1 Oc 16c 12c 20c 26c 34c

Page Two

Power Grinders, Hack Saw, Drills, Etc.



ACME SPECIAL DRILL.



Has both flywheel and crank. Spindle has up and down run of 3 inches. Table has up and down run of 10¾ inches. Drills up to 1¼-inch holes and to center of 15-inch circle. Takes ½-inch round shank drills. Should be run at about 200 revolutions per minute. Shgs. wt., 126 lbs.

99M5083 ★ Price, with lag screws for fastening to post ....\$14.80 \* Not Mailable.

"GARAGE SPECIAL" DRAW CUT POWER



Cuts bar stock within its capacity very accurately and at low cost. S a w frame is supported on a machined bearing, having adjustment for wear.

Made extra heavy throughout. Simple in design—no complicated mechanism to get out of order, has few moving parts and is very compact and rigid.

12-inch high speed blade furnished with each saw, speed blade furnished with each saw, inches. Height over all, 29½ inches. Length, 29 inches, 14x2½-inch pulley, which should revolve about sixty revolutions per minute.

volve about sixty revolutions per minute.
Weight, 110 pounds net. Weight, crated for shipment, about 125 lbs.
99M8282½—"Garage Special" Draw Cut Power Saw.
Price, shipped direct from factory near CHICAGO

"GARAGE SPECIAL" POWER DRILL.

This Drill is made extra heavy throughout. The materials which are used for its manufacture are the very best for the different parts.

Bearings are extra long, suring easy running and long life. Steel ball thrust bearings at the end of the spindle. Spindle is 11/6-inch steel, bored for standard 1/2-inch round shank drills. Feed adjustment, 3½ in.

Table is adjustable up and down, on a cold rolled steel column. Distance from center of drill to column, 7¼ in. Vertical adjustment of table, 17 inches. Size of table, 7x8 inches.

Main frame of drill is fasten-Main frame of Grill is lasten-ed to a pipe column. Distance from floor to center of pulley shaft, 5 feet. Distance from lower base to end of spindle, 4 feet. Base, or floor plate, 13½x17

Furnished with 10x2-inch tight and loose pulleys; also a hand lever—when used without power. A substantially made machine, suitable for any kind of drilling

within its capacity.

Automatic feed attachment is very simple. Drill can also be used with hand feed if desired.

Drill weighs 200 lbs. Weight, crated for shipment, 225 pounds.

99M82801/3 - "Garage



Emery Wheel
Stand Complete
With Column as
Illustrated.

\$1770 EMERY WHEEL
STAND. With adjustable tool rests.
Will run two 8x1inch grinding wheels
with 34-inch holes.
Size of spindle, 76inch in diameter by
14 inches long, with
24-inch babbitted
bearings. Size of pulley, 24, inches in diameter by 2-in, face.
COLUMN, Height,
334 inches. Size of
base, 13x14 inches.
99,M5549-Em-

base, 13x14 inches.

99M5549-Emery Wheel Stand complete with column, as illustrated. Shgs. wt., 79 lbs.

\*Price \$17.70

99M5552-Emery Wheel Stand cnly, as above. Shipping wt. 27 pounds.

Price.\$9.90

Column only, as

99M5553—Column only, as ove. Shipping weight, 78 pounds. \* Not Mailable.

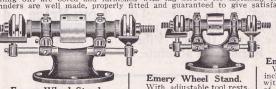
Columns Have Raised Edge

Around Top to Prevent Tools

From Falling Off.

EMERY WHEEL STANDS AND COLUMNS. Stands and Columns Are Sold Separately.

If you desire grinder mounted on column, order a column at the same time you order the stand. Stands are equipped with dustproof brass oil cups and furnished with bolts for attaching to columns. Columns have raised edge around top to prevent tools from falling off, are bored and furnished with lag screws for fastening to the floor. These grinders are well made, properly fitted and guaranteed to give satisfactory service.



Emery Wheel Stand.

With adjustable tool rests.
Will run two 14x2-inch grinding
wheels with 1½-inch holes. Size
of spindle, 1¾ inches in diameter by 27 inches long, with 5inch babbitted bearings. Size of
pulley, 5 inches in diameter by
4¼-inch face. Shpg. wt., 105 lbs.
99M5556

\* Price for stand only, without
emery wheels
\$29,00

COLUMN ONLY.
For above emery wheel stand.
Height, 28½ inches. Size of
base, 15x5 inches.
99M5557—\* Price for colunn only
\* Not Mailable.

\* OOR INDUITION.

HOWARD CORUNDUM WHEELS.

Emery Wheel Stand.
With adjustable tool rests,
Will run two 10x1½-inch
grinding wheels with 1-inch
holes. Size of spindle, 11½6
inches in diameter by 19 in.
long, with 3¾-inch babbitted
bearings. Size of pulley, 3½
inches in diameter by 2½-in.
face. Shipping wt., 54 lbs.
99M5554—Price, for
stand only, without emery
wheels \$16.50

COLUMN ONLY.
For above emery wheel
stand. Height, 32 inches. Size
of base, 14x16 inches. Shiping weight, 80 pounds.
99M5555-\* Price, for
column only. \$10.00
\* Not Mailable.

Emery Wheel Stand. Emery Wheel Stand.
Will run two 6x1inch emery wheels
with ½-in, holes, Size
of spindle, ¾-inch in
diameter by 10¼ in,
long, with plain bearings. Size of pulley, 2
inches in diameter by
1½-inch face. Shipping
weight, 11 pounds.
99M5550—Price,
for stand only, without
emery wheels \$5,25
COLUMN ONLY

COLUMN ONLY.
For above emery
wheel stand.
Height, 34½ inches.
Size of base, 11x12 in.
Shipping wt., 56 lbs.
99M5551
\* Price, for column
only \* Not Mailable.

\$1.25 1.50 1.80 2.20 2.65 3.10

\$1.00 1.20 1.40 1.75 2.15

2.60

Special" Power Drill.
Price, shipped direct from factory near Chicago \$33.50 BELT COUNTERSHAFTS. \$600 %-Inch. For use with emery wheel st and s shown on this page. Price includes lag screws and washers for attaching.

Catalog Shaft, Pulleys, Pull's Wt., Size, In. Inches Sp9M5621 78 334x134 8x2 20 99M5622 1 5 x2½ 10x2½ 50 99M5624 \*1½ 6 x4½ 16x4 112 \$ 6.00

\* Not Mailable.

CLOTH BUFFING WHEELS. Each wheel is made of twenty thicknesses of cloth, securely sewed together. State diameter.

9M6296 Diameter, inches. 6 8 10 12 Weight, ounces. 2 3 5 7 Price 20c 30c 45c 60c RED TRIPOLI BUFFING COM-POUND.

25c For use on buffing wheels in working rough surfaces. This material produces a smooth finish. In cakes of 2 pounds.

9M6298—Price, per cake

WHITE FINISHING COMPOUND. For use on buffing wheels. This compound produces a high polish or luster on brass, copper, aluminum, steel or nickel plated surfaces. In cakes of 2 pounds.

9M6299—Price, per cake 35c

HUNTINGTON PATTERN IM-PROVED EMERY WHEEL DRESSER.



Weight, 1½ pounds.
9M5723—Price, with two sets
60c of cutters 60c

9M5724—Extra Cutters for emery
wheel dressers. Weight, 1 oz.
Price, per set 8c

#### COUNTERSHAFTS TO USE WITH LATHE SETS SHOWN TO THE RIGHT.

match pulleys Pulleys on same size lathe sets. Price includes lag screws and washers for attaching.

Size Shpg. No. Wt. \$ 7.80 9.90 14.00 16.80



\$0.50 .70 .80 .90 1.05 1.20 1.35 1.50 FULL SIZE LATHE SETS FOR MECHANICS' USE.

\$0.75 .90 1.10 1.35 1.70 2.10

\$0.40 .48 .56 .64 .72 .80 .88

\$0.25 .28 .31 .34 .37

\$0.30 .35 .40 .45 .50

Nos. 3 and 4 have babbitted bearings; Nos. 1 and 2 have cast iron bearings. Lathe set consists of metal parts only. Wood bed not included. | Section | Sect Price,



# Wood Working Machinery

Our saw machines are made by a well known manufacturer of wood working machinery. Only high grade materials go into their construction. They are carefully made by good workmen and, after completion, each machine is belted to power and given an actual running test before being shipped. Every machine that goes out is free from defects and in perfect running order.

OUR GUARANTEE: Full satisfaction or your money back, including all freight charges you paid, if any machine listed in this catalog fails to please you after thirty days' trial in your own shop and is returned to us.

## Five Points of Superiority

On account of its great strength, the use of angle steel has made possible many of the modern engineering feats. For example, the 54-story skyscraper, the 500-foot steel bridge and the 1,000-foot trestle. In building and designing wood working machines, we believed they should be made as strong and with as little excess weight as possible. For this reason we believe angle steel is the most suitable material.

Rigid
Our most recent and most important improvement is the adoption of the electric welded joint, still further developing the strength of the frames. The electric welded joint makes every unit an integral part of the entire frame. Vibration is impossible. Rigidity is absolute.

Durable All frames and parts are made so strong and so rigid that we guarantee our machines against all defects in material and workmanship.

Portable The angle steel frame combines maximum strength with minimum weight. The long bases allow the engine to be set in the rear where it is easy to get at to keep it in good running order. The engine is away from the sawdust and the long belt drive gives more power.

Low Price
All parts have been standardized so they can be made up in large quantities, which means low prices. Our large output is the result.

# In Buying a Saw Machine Get a Machine That's Strong, Serviceable and Durable

Strong Enough to Stand All the Strain that a 4-inch belt will pull when operating a 14-inch saw in hardwood. This is the severest strain that any machine can be subjected to. Our machines are guaranteed to stand up under this most severe test and to give you the service you have a right to expect.

Not Affected by Moisture. Unlike wood frame machines, ours, being made of angle steel, are not affected by dampness. Wood frame machines when placed in a damp place will soon swell and become loose and shaky, causing more or less inconvenience. Our frames, being made of angle steel, are not so affected by moisture and are guaranteed not to get loose.

#### We Ship All Saw Machines Promptly Direct From Factory

Terms and How to Order. Our terms are cash with order. Use the order blank which comes with this catalog, or if you have no order blank use any sheet of plain paper, give the catalog numbers of the articles you select and enclose our price. The best ways to send money are in the form of an express or postoffice money order, bank draft or currency in a registered letter. If you have a checking account at a bank you may send us your personal check. We guarantee the arrival of every shipment in perfect condition. If for any reason you are not perfectly satisfied with the goods you receive, you are at

liberty to send them back, and we will return the price and all freight charges you paid.

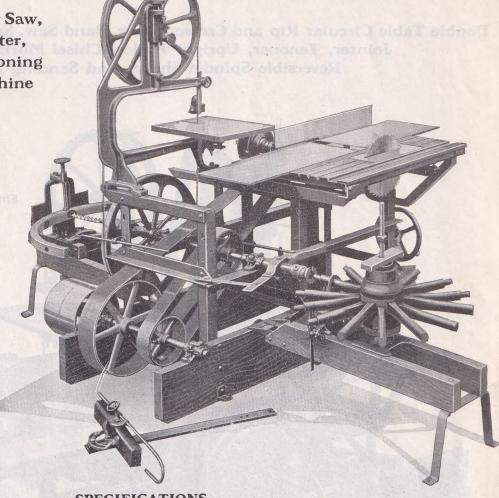
Freight Charges Amount to Very Little as compared with the saving we make for you. Every wood working machine in this catalog is shipped direct to you from the factory at CINCINNATI, OHIO. There is but one handling and one freight charge for you to pay. You can readily appreciate the fact that this direct method of handling goods enables us to make you a big saving, even after you have paid the freight charges. We guarantee to make you a saving over and above all freight charges.

# Wagon Shop Special

Circular, Rip and Crosscut Saw, Band Saw, 12-Inch Jointer, Felloe Boring, Spoke Tenoning and Rim Rounding Machine

**\$245**<sup>00</sup>

Shipped Direct From Factory at Cincinnati, Ohio.



#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel, electric welded together, 2x10-inch base timbers 5 feet long, set 2 feet apart.

Saw Table. Heavy angle steel frame with channel steel slats welded to frame. Top surface ground level and true. Height, 2 feet 9½ inches; width, 27 inches; overhangs base on left side 10½ inches. Length, 3 feet. Table hinged at back to raise or lower for regulating depth of cut. Has opening for 14-inch saw, which will cut up to 5 inches deep.

Band Saw. 22-inch swing, cuts to center of 44-inch circle. Table measures 14½x17½ inches, stands 40 inches from floor and can be tilted for sawing bevels. Has two saw guides. Upper guide has ball bearing disc and can be raised to saw material up to 7 inches thick. Band saw wheels are covered with endless rubber bands and take saws 12 feet long.

Jointer. 12 inches wide, with round steel safety head and four knives, cutting circle 4½ inches in diameter. Head fastened to mandrel with both key in shaft and set screw between bearings. Plates made of steel. Front plate, 2 feet long; rear plate, 2½ feet long. Both plates have hand wheel screws for raising or lowering on inclines to adjust depth of cut.

Felloe Borer and Spoke Tenoner. Chucks take ½-inch round shank bits or hollow augers. Hand levers throw bits or hollow

augers to or from work, has adjustable stop for regulating depth of bore. Furnished with %-inch boring bit and 1½-inch hollow auger with 5½-inch and ½-inch bushing.

Rounder and Edge Molder. Furnished with cutter heads for rounding rims or poles.

*Tilting Guide.* For jointer or rip saw, tilts to angle of 45 degrees and is adjustable for ripping up to 17 inches in width. Furnished with spring to hold down material.

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length.

Saw Mandrel. 15/16 inches in diameter, 39 1/4 inches long, threaded at both ends. Right and left hand threads, left end threaded 4 1/4 inches long, right end 6 inches long. Takes saws, cutter heads or emery wheels with 1-inch hole. Flanges 3 1/2 inches in diameter.

Countershaft. 13/16 inches in diameter. Size of pulley for circular saw mandrel, 16x4-inch face; size of pulley for band saw, 8x3-inch face; size of tight and loose drive pulleys, 10x4-inch face.

Bearings. 4 inches wide, full babbitted with high quality babbitt.

Shipping Weight 950 lbs.

Floor Space 7 ft. 9 in. x 6 ft. 5 in.

Tight and Loose Drive Pulley 10x4 In.

Speed 550 R. P. M. Power 5 H.-P.

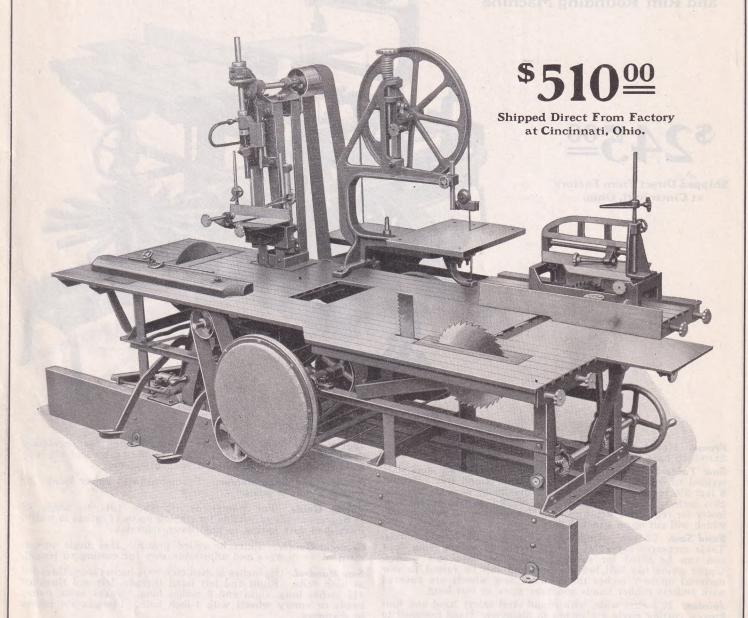
99M8710½—Wagon Shop Special, complete with one 12-inch rip saw, one 10-inch crosscut saw, one ¾-inch band saw, one 5%-inch bit, one 1½-inch hollow auger with 5%-inch and 7%-inch bushings and one 4-inch and one 3-inch belt.

SHIPPED DIRECT FROM FACTORY AT CINCINNATI, OHIO.

## Planing Mill Special

Eight Machines in One.

Double Table Circular Rip and Crosscut Saw, Band Saw, Swing Cut-Off Saw, 12-Inch Jointer, Tenoner, Upright Hollow Chisel Mortiser and Borer, Reversible Spindle Shaper and Sanding Machine



Shipping Weight 1,800 lbs.

Floor Space 4 ft. 10 in. x 9 ft. 6 in.

Tight and Loose Drive Pulley 10x4 in. face

Speed 550 R. P. M.

Power 5 to 7½ H.-P.

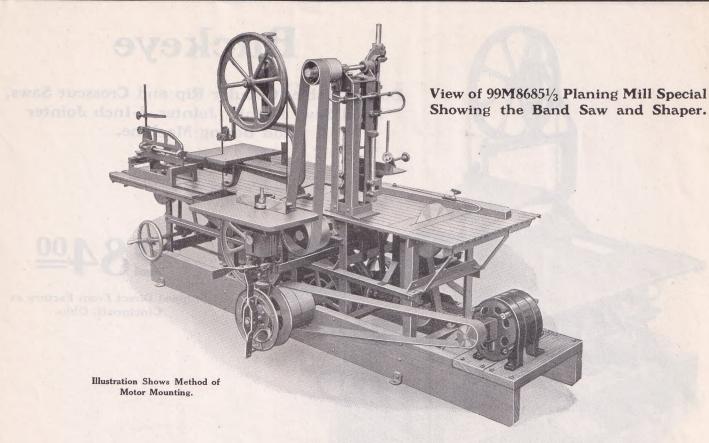
99M8685<sup>1</sup>/<sub>3</sub>—Planing Mill Special, complete with one 12-inch cut-off saw, one 12-inch rip saw, one 10-inch crosscut saw, one 3%-inch band saw and five belts.

Price

\$510.00

(See page 7 for specifications.)

SHIPPED DIRECT FROM FACTORY AT CINCINNATI, OHIO.



#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel, electrically welded together. Heavy 2x10-inch base timbers 8 feet long, set 2 feet apart.

Circular Saw Table. Has double working surface. Heavy angle steel frame with channel steel slats welded to frame. Top surface ground level and true. Width 44 inches, overhangs base on right side 10 inches, overhangs base on left side 8 inches.

Raising and Lowering Circular Saw Mandrel. Has positive and accurate adjustment for quickly and easily regulating depth of cut. Diameter of mandrel 15/16 inches, threaded left end 41/4 inches, right end 57/8 inches. Flanges 31/2 inches in diameter. Takes saws, etc., with 1-inch hole. Size of pulley 3x4-inch face. Has friction clutch to start and stop.

Jointer. 12 inches wide, with round safety head and four knives, cutting circle 4½ inches in diameter. Head is fastened to mandrel with both key in shaft and set-screw between bearings. Plates made of steel. Front plate 2 feet long, rear plate 2½ feet long. Both plates have handwheel screws for raising or lowering on inclines to adjust depth of cut.

Tilting Guide. For jointer tilts to angle of 45 degrees and is adjustable up to 17 inches in width. Furnished with spring to hold down material.

Band Saw. 22-inch swing, cuts to center of 44-inch circle. Table measures 14½x17½ inches, stands 40 inches from floor and can be tilted for sawing bevels. Has two saw guides. Upper guide has ball bearing disc and can be raised to saw materials up to 7 inches thick. Band saw wheels are covered with endless rubber bands and take saws 12 feet long. Has belt shifter to start and stop.

Swing Cut-Off Saw. Has welded channel steel top. 12-inch saw furnished will cut 1-inch stuff 15 inches wide or 3-inch stuff 12 inches wide. Has an adjustable stop so as not to swing back farther than necessary to take in width desired to work. Saw drops below table surface when not in use. Saw mandrel 13/16 inches in diameter, 31/2-inch flanges, take saws with 1-inch

hole. By throwing out the lever which engages the bevel frictions, the swing saw stops.

Reversible Spindle Shaper. Table is 12 inches wide by 2 feet 2 inches long and raises and lowers by handwheel to limit of 3 inches to adjust cut. Spindle is 1 inch in diameter, takes cutters with 7/8-inch hole. Threaded end is 33/4 inches long. Flange is 23/4 inches in diameter. Collar for reversible knives is 13/8 inches in diameter by 3/4-inch face. Shaper is operated by lever which presses the spindle against double friction discs. A pair of slotted collars and two straight edge knives are furnished.

Upright Hollow Chisel Mortiser and Borer. Bed plate tilts to angle of 45 degrees and is adjustable to and from stand and will take up to 3 inches to center of bit. Chuck takes hollow chisel bits from ¼ to ¾-inch and boring bits with ½-inch shank from ¼ to 2-inch. Foot treadle forces chisels and bits into the work. Furnished with one ¾-inch boring bit. Has belt shifter to start and stop.

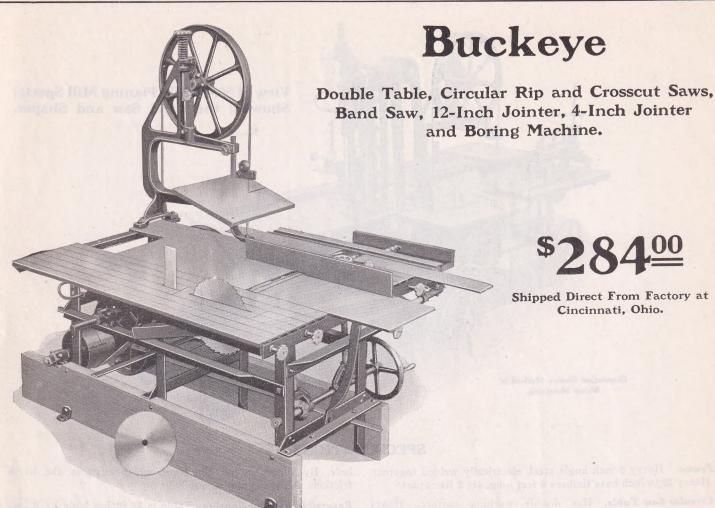
Tenoner. Furnished with two 9-inch grooving saws and sliding carriage. Saws cut up to 2½ inches deep and up to 1¾ inches wide. Cuts tenons up to 12 inches wide and by removing edge clamp up to 14 inches wide and up to 3 inches deep. Thickness of tenon is regulated by collars placed between the saws. Carriage has vertical stop for making tenons of exact lengths.

**Sand Disc.** 18 inches in diameter, has metal band to hold on sandpaper and is covered with sandpaper.

Rip Guide. Is adjustable for any width up to 22 inches wide and has wood spring for holding down material.

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length.

Countershaft. 13/16 inches in diameter with 10x4-inch tight and loose pulleys.



Shipped Direct From Factory at Cincinnati, Ohio.

#### SPECIFICATIONS

Frame. Heavy 2-inch angle steel electrically welded together, 2x10-inch base timbers, 5 feet long, set 2 feet apart.

Circular Saw Table. Has double working surface. Heavy angle steel frame with channel steel slats welded to frame. Top surface ground level and true. Width 44 inches, overhangs base on right side 10 inches, overhangs base on left side 8 inches. Length, 3 feet; height, 311/2 inches. Distance between

Raising and Lowering Circular Saw Mandrel. Has positive and accurate adjustment for quickly and easily regulating depth of cut. Diameter of mandrel 15/16 inches, threaded left end 41/4 inches, right end 5% inches. Flanges 31/2 inches in diameter. Takes saws, etc., with 1-inch hole. Size of pulley, 3x4 inch face. Has friction clutch to start and stop.

Jointer. 12 inches wide with round safety head and four knives, cutting circle 41/4 inches in diameter. Head is fastened to madrel with both key in shaft and set screw between bearings. Plates made of steel. Front plate 2 feet long. Rear plate 2½ feet long. Both plates have handwheel screws for raising or lowering on inclines to adjust depth of cut.

Jointer. 4 inches, with square head, two knives and side cutter. Adjustable plates are  $3\frac{1}{2}$  inches wide by 2 feet long.

Band Saw. 22-inch swing, cuts to center of 44-inch circle. Table measures 14½x17½ inches, stands 40 inches from floor and can be tilted for sawing bevels. Has two saw guides. Upper guide has ball bearing disc and can be raised to saw material up to 7 inches thick. Band saw wheels are covered with endless rubber bands and take saws 12 feet long. Has belt shifter to start and stop.

Borer. Takes bits with ½-inch round shank from ¼ to 1½ inches. Adjustable sliding table can be raised or lowered to take up to 2¼ inches below center of bit and has stop for regulating depth of bore.

Crosscut and Tenoning Guide. With clamping bar. Slides in milled groove, has angle adjustment of 45 degrees and adjustable stop for cutting to length. Clamping bar holds material firmly in place.

Tilting Guide. Tilts to angle of 45 degrees and is adjustable up to 17 inches in width. Furnished with spring to hold down

Rip Guide. Is adjustable for any width up to 22 inches wide and has wood spring for holding down material.

Countershaft.  $1\%_6$  inches in diameter, 45 inches long with 10x4-inch tight and loose drive pulleys.

Bearings. 4 inches wide, full babbitted with high quality babbitt.

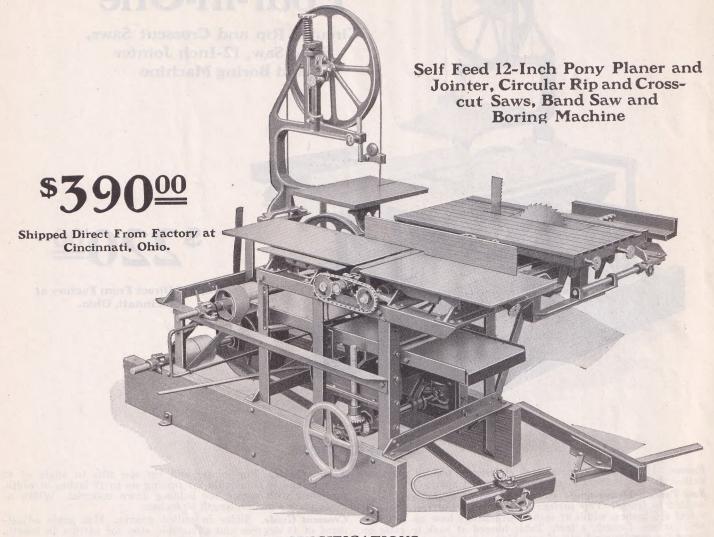
Shipping

Weight Floor Space Tight and Loose Drive Pulleys Speed 1,170 lbs. 4 ft. 10 in. x 6 ft. 5 in. 10x4-In. Face 550 R. P. M.

99M86801/3—Buckeye, complete with one 12-inch rip saw, one 10-inch crosscut saw, one 3/6-inch band saw 

SHIPPED DIRECT FROM FACTORY AT CINCINNATI, OHIO.

## Pride of the Shop



#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel, electrically welded together, 2x10-inch base timbers 5 feet long, set 2 feet apart.

Saw Table. Heavy angle steel frame with channel steel slats, welded to frame. Top surface ground level and true. Height 2 feet 9½ inches, width 20¼ inches. Length 3 feet. Table hinged at back to raise or lower for regulating depth of cut. Has opening for 14-inch saw which will cut up to 5 inches deep.

12-Inch Jointer and Self Feed Pony Planer. With round safety head and four knives, cutting circle 4½ inches in diameter. Head is fastened to mandrel with both key in shaft and set Head is tastened to mandrel with both key in shart and set screw between bearings. Jointer plates made of steel. Front plate 2 feet long, rear plate 2½ feet long. Both plates have handwheel screws for raising or lowering on inclines to adjust depth of cut. Pony planer consists of adjustable table under cutter head. Has feed rollers in front and rear of cutter head. Self feed has two speeds or can be stopped by shifting gears in restrict position. Planes material up to 12 inches wide and in neutral position. Planes material up to 12 inches wide and up to 6 inches thick. Has friction clutch to start and stop.

Band Saw. 22-inch swing, cuts to center of 44-inch circle. Table measures 14½x17½ inches, stands 40 inches from floor and can be tilted for sawing bevels. Has two saw guides. Upper

guide has ball bearing disc and can be raised to saw material up to 7 inches thick. Band saw wheels are covered with endless rubber bands and take saws 12 feet long. Has belt shifter to start and stop.

Borer. Takes bits with ½-inch round shank from ¼ to ½ inches. Adjustable sliding table can be raised or lowered to take up to ½¼ inches below center of bit and has stop for regulating depth of bore.

Tilting Guide. For jointer tilts to angle of 45 degrees and is furnished with spring to hold down material.

Crosscut Guide. Slides in milled groove, has angle adjustment of 45 degrees and adjustable stop for cutting to length.

Rip Guide. Adjustable for ripping any width up to 22 inches

with wood spring to hold down material.

Saw Mandrel. 15/16 inches in diameter, 25 inches long. Right hand thread 63/4 inches long. Takes saws with 1-inch hole up to 14 inches in diameter. Flanges 3½ inches in diameter. Has frietion clutch to start and stee. friction clutch to start and stop.

Countershaft. 13/16 inches in diameter. Drive pulley 10x4-inch

Bearings. 4 inches wide, full babbitted with high quality babbitt.

Shipping Weight 1,375 lbs.

Floor Space 5 ft. 4 in. x 7 ft. Drive Pulley, Tight 10x4 in.

Speed 550 R. P. M. 5 H.-P.

99M87201/3-Pride of the Shop, complete with one 12-inch rip saw, one 10-inch crosscut saw; one 3/8-inch band saw and four belts. Price.....

\$390.00

SHIPPED DIRECT FROM FACTORY AT CINCINNATI, OHIO.



\$220<u>0</u>0

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel, electrically welded together, 2x10-inch base timbers 5 feet long, set 2 feet apart.

Saw Table. Heavy angle steel frame with channel steel slats welded to frame. Top surface ground level and true. Height 2 feet 9½ inches, width 27 inches, overhangs base on left side 10½ inches. Length, 3 feet. Table hinged at back to raise or lower for regulating depth of cut. Has opening for 14-inch saw, which will cut up to 5 inches.

Band Saw. 22-inch swing, cuts to center of 44-inch circle. Table measures 14½x17½ inches, stands 40 inches from floor and can be tilted for sawing bevels. Has two saw guides, upper guide has ball-bearing disc and can be raised to saw material up to 7 inches thick. Band saw wheels are covered with endless rubber bands and take saws 12 feet long.

**Jointer.** 12 inches wide with round safety head and four knives, cutting circle  $4\frac{1}{4}$  inches in diameter. Head is fastened to mandrel with both key in shaft and set screw between bearings. Plates made of steel. Front plate 2 feet long. Rear plate 2½ feet long. Both plates have hand wheel screws for raising or lowering on inclines to adjust depth of cut.

Borer. Takes bits with ½-inch round shank from ¼ to 1½ inches. Adjustable sliding table can be raised or lowered to take up to 21/4 inches below center of bit and has stop for regulating depth of bore.

Shipping Tight and Loose Weight Floor Space Drive Pulley Speed 920 lbs. 4 ft. 4 in.x6 ft. 5 in. 10 in. diam.x4 in. face 550 R. P. M.

Tilting Guide. For jointer and rip saw tilts to angle of 45 degrees and is adjustable for ripping up to 17 inches in width, furnished with spring for holding down material. Width of guide plate 4 inches, length 30 inches.

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length. Saw Mandrel. 15/16 inches in diameter, 393/4 inches long, threaded at both ends, right and left hand threads. Left end threaded 4½ inches, right end threaded 6 inches. Flanges measure 3½ inches in diameter, takes saws with 1-inch hole; fitted with 3x4-inch face pulley.

Countershaft. 13/16 inches in diameter, size of pulley for circular saw mandrel 16x4-inch face. Size of pulley for band saw 8x3-inch face. Size of tight and loose drive pulleys 10x4-inch face. Bearings. 4 inches wide, full babbitted

with high quality babbitt.

Illustration Showing Band Saw and Borer. Power

99M86701/3-Four-in-One, complete with one 12-inch rip saw, one 10-inch crosscut saw, one 3/8-inch band saw, one 3/8-inch bit and one 4-inch and one 3-inch belt.

\$220.00 Price ...

## Standard

Rip and Crosscut Saw, 6-Inch Jointer, 12-Inch Sand Drum and Boring Machine

\$170<sup>00</sup>

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel, electrically welded together, 2x10-inch base timbers 4 feet long, set 2 feet apart.

Saw Table. Heavy angle steel frame, with channel steel slats welded to frame. Top surface ground level and true. Height 2 feet 9½ inches, width 27 inches, overhangs base on left side 10½ inches. Length 3 feet. Table hinged at back to raise or lower for regulating depth of cut. Has opening for 14-inch saw, which will cut up to 5 inches deep.

6-Inch Jointer. Plates are steel 6\*inches wide, ground to a true finish surface. Both plates are 2 feet long and are furnished with handwheel screws for raising and lowering (to adjust depth of cut). Head is our round safety head with four knives. Cutting circle of head is 4¼ inches. Can be slipped off end of mandrel and sand drum, or other cutter heads with molding knives, etc., used in its place.

Boring Attachment. Adjustable sliding table and 3%-inch boring bit. Takes bits with ½-inch round shank from ½ to 1½ inches.

Sand Drum. 12 inches wide by 41/4 inches in diameter, covered with sand-

Tilting Guide. For jointer is adjustable and tilts to angle of 45 degrees. Furnished with spring for holding down material.

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length.

Shipping Weight Floor Space 360 lbs. 4 ft. 4 in. x 5 ft. 6 in.

Rip Guide. Adjustable for ripping any width up to 22 inches.

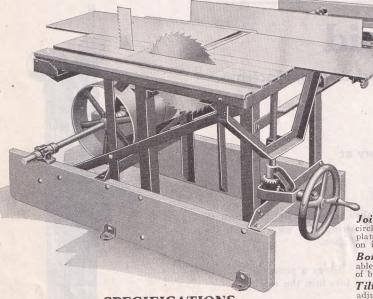
**Saw Mandrel.** 15/16 inches in diameter, 393/4 inches long, threaded left end 4/4 inches long. Takes saws with 1-inch hole up to 14 inches in diameter. Flanges 31/2 inches in diameter.

 $\pmb{Countershaft}.$  13 $_{16}$  inches in diameter, large pulley 16x4-inch face, tight and loose pulleys 10x4-inch face.

Bearings. Are 4 inches wide and are full babbitted with high quality babbitt.

Tight and Loose
Drive Pulley
Speed
Power
10x4-inch face
550 R. P. M.
3 to 5 H. P.

99M8655½—Standard, complete with one 12-inch rip saw, one 10-inch crosscut saw, one 4-inch belt and one



SPECIFICATIONS

Frame. Heavy 2-inch angle steel, electrically welded together, 2x10-inch base timbers 4 feet long, set 2 feet apart.

Saw Table. Heavy angle steel frame, with channel steel slats riveted to frame. Top surface ground level and true. Height 2 feet 9½ inches, width 27 inches, overhangs base on left side 10½ inches. Length 3 feet. Table hinged at back to raise or lower for regulating depth of cut. Has opening for 14-inch saw, which will cut up to 5 inches deep.

Shipping Weight Floor Space 4 ft. 4 in. x 5 ft. 6 in.

Old Reliable
Circular Rip and Crosscut Saw,

Circular Rip and Crosscut Saw, 12-Inch Jointer and Boring Machine

\$15600

Shipped Direct From Factory at Cincinnati, Ohio.

Jointer. 12 inches wide with round steel safety head and four knives, cutting circle 4½ inches in diameter. Plates made of steel. Front plate 2 feet long, rear plate 2½ feet long. Both plates have handwheel screws for raising or lowering on inclines to adjust depth of cut.

**Borer.** Takes bits with ½-inch round shank from ¼ to ½ inches. Adjustable sliding table can be raised or lowered to take up to ½ inches below center of bit and has stop for regulating depth of bore.

Tilting Guide. For jointer and rip saw tilts to angle of 45 degrees and is adjustable for ripping up to 17 inches in width. Furnished with spring for holding down material.

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length.

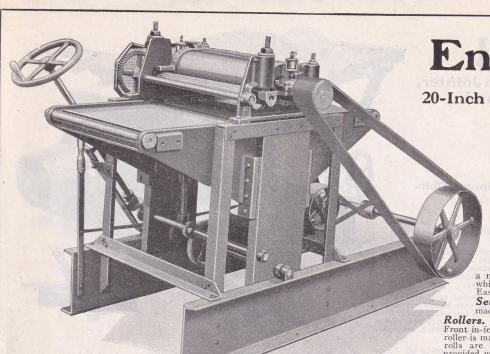
Saw Mandrel. 15/16 inches in diameter, 3934 inches long, threaded at both ends. Right and left hand threads, left end threaded 444 inches long, right end 6 inches long. Takes saws with one-inch hole. Flanges 3½ inches in diameter.

Countershaft. 13/16 inches in diameter, large pulley 16x4-inch face. Tight and loose pulleys 10x4-inch face. Bearings 4 inches wide and full babbitted.

Tight and Loose
Drive Pulley
Speed
Power
10x4-inch face
550 R. P. M.
3 to 5 H. P.

ALL GOODS SHOWN ON THIS PAGE SHIPPED DIRECT FROM FACTORY AT CINCINNATI, OHIO.

\$170.00



**SPECIFICATIONS** 

Table. Length 45 inches between end rollers, width, 20 inches wide between ledges. Table is cast in one piece and machined perfectly level and smooth. Gibs are provided on the sides for taking up the wear. Adjustment for thickness is made by hand wheel at side. Brass index plate fastened on side of table for setting for thickness to be planed.

Capacity. Will plane material up to 20 inches wide by 8 inches thick.

Endurance

20-Inch Single Surface Planer

Shipped Direct From Factory at Cincinnati, Ohio.

Frame. The frame is constructed of heavy channel steel. It is electric welded and reinforced at all points of strain. This construction assures a maximum of strength and convenience of operation which is not obtained in the heavy cast iron planers. Easy accessibility to all working parts is a feature.

Self Feed. Has two speeds. All gears are machined and exposed gearing is well guarded.

Rollers. Feed rollers are machined from solid bar steel. Front in-feed roller is fluted to insure positive feed. Rear feed roller is machined and turned true and smooth. Upper pressure rolls are equipped with compression springs. The table is provided with four idler rollers, one on each end of table and two directly under the feed rollers.

The bearings for the cutter head are cast in the frame. The

Bearings. The bearings for the cutter head are cast in the frame. The cylinder bearings are 5 inches long. All bearings are filled with the very best grade of high speed babbitt and are provided with self closing oil cups.

Head. Cutter head is turned and machined from solid bar steel. The pulley is also part of the solid bar. No keys or set screws to bother with. Furnished with three knives held firmly with planer bolts. Clearance for chips is provided for and the knives are fitted in milled grooves. There is no shearing action or strain on the knives and they cannot work loose.

Countershaft. 15/16-inch diameter with 4-inch bearings. Large pulley 16-inch diameter with 4-inch face.

Tight and Loose Shipping Weight Floor Space Drive Pulleys 1,450 lbs. 3 ft. 6 in. x 5 ft. 6 in. 10x4-inch face Speed Power 1,000 R. P. M. 5 H.-P.

99M87161/3-Endurance Planer, complete with one 4-inch and one 2-inch belt. Price......

New Rapid

Upright Hollow Chisel Mortising and Boring Machine.

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Capacity. Mortises of almost any size can be made by repeating the cut either lengthwise or crosswise. Chisel bits mortise up to 3 inches deep, but mortises up to 6 inches deep can be made by reversing the work.

Frame. 2-inch angle steel, securely bolted and riveted together.

Bed Plate. Tilts to angle of 45 degrees and is adjustable to and from stand and will take up 3 inches to center of bit. Can be lowered to take in 12 inches below point of bit.

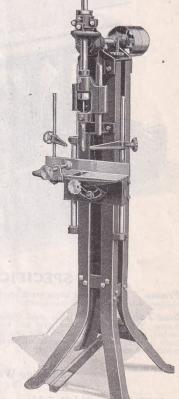
Chuck. Takes hollow chisel bits from 1/4 to 5/8 inch and boring bits with 1/2-inch shank from 1/4 to 2 inches.

Foot Treadle. Gives a powerful pull, forcing chisel and bits into the work.

Shafting. Is 1 inch in diameter with 3-inch babbitted bearings, 5x3-inch tight and loose pulleys with belt shifter.

Shipping Weight Tight and Loose Floor Space Drive Pulleys Power 1 ft. 10 in. x 2 ft. 5 in. x 3-in. face 900 R. P. M.

99M8735<sup>1</sup>/<sub>3</sub>—New Rapid Upright Hollow Chisel Mortising and Boring Machine, complete with one ¾-inch hollow chisel and bit and one ¾-inch boring bit.



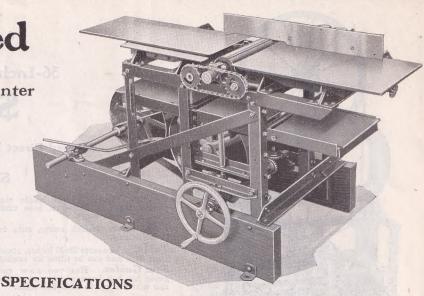
\$245.00

Consolidated

12-Inch Pony Planer and Jointer

\$195<u>00</u>

Shipped Direct From Factory at Cincinnati, Ohio.



Frame. Heavy 2-inch angle steel, electric welded together, 2x10 inch base timbers 5 feet long, set 2 feet apart.

12-Inch Jointer. Consists of two steel plates, front plate 14 inches wide by 2 feet long, rear plate 12 inches wide by 21/2 feet long. Both plates are ground to a true finish surface and have hand wheel screw adjustment for raising or lowering on inclines for adjusting depth of cut. Front plate extends 2 inches on the left side beyond head, rear plate has an adjustable drop surface on left side in line with end of head for rabbetting on end

of jointer head. Has round safety head fastened to shaft with both key and set screw. Head has four knives.

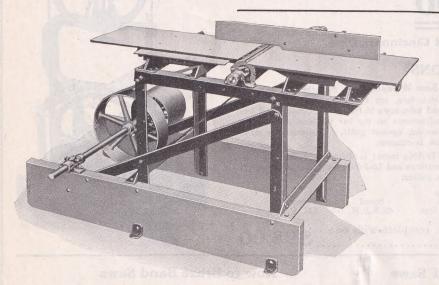
12-Inch Pony Planer. Consists of an adjustable table under cutter head. Has feed rollers in front and rear of cutter head. Self feed has two speeds or can be stopped by shifting gears in neutral position. Planes material up to 12 inches wide and up to 6 inches thick.

Countershaft. 13/16 inches in diameter with 4-inch babbitted bearings.

Shipping Weight Floor Space Tight and Loose Drive Pulley Speed 785 lbs. 3 ft. 4 in. x 6 ft. 10 in. x 4-in. face 550 R. P. M. 3 to 4 H.-P.

99M87251/3—Consolidated 12-Inch Pony Planer and Jointer, complete with one 2-inch and one 4-inch belt.

\$195.00



Ideal

12-Inch Jointer

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel electric welded together. Base timbers are 2x10 Yellow Pine 5 feet long and are set 2 feet apart.

Cutter Head. Round safety type made of solid steel and is furnished with four high speed steel knives.

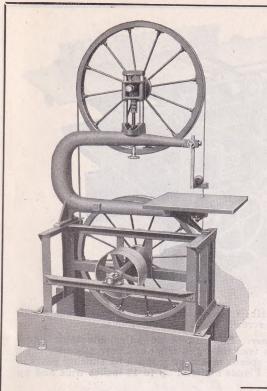
Mandrel. 15/16-inch diameter.

and have handwheel screw adjustment for raising and lowering to adjust depth of cut. Front plate is 14 inches wide by 24 inches long. Rear plate is 12 inches wide by 30 inches long. Rear plate has adjustable plate on the side for rabbetting.

Countershaft. 13/16 inches in diameter with 4-inch babbitted Jointer Plates. Both plates are ground to a true finish surface bearings. Large pulley 16-inch diameter by 4-inch face.

> Floor Space Tight and Loose Drive Pulley Speed Power 3 ft. 4 in. x 6 ft. 10 in. x 4-in. face 550 R. P. M. 2 H.-P. Shipping Weight 450 lbs.

\$122.00 99M87311/3—Ideal 12-Inch Jointer, complete with 4-inch belt. Price..... 98.00 99M87321/—Same machine, without countershaft and belt. Price.....



## Jumbo

36-Inch Band Saw Machine

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Frame. Heavy 2½-inch angle steel, electric welded together, 2x10-inch base timbers 4 feet long, set 2 feet apart.

Band Saw. 36-inch swing, cuts to center of

Table. Measures 24x30 inches, stands 40 inches from floor and can be tilted for sawing bevels.

Saw Guides. Has two saw guides, upper guide has ball bearing disc and can be raised to saw material up to 10 inches thick.

Band Saw Wheels. Are 36 inches in diameter by 2-inch face, are covered with endless rubber bands and take saws 17½ feet long. Upper wheel has tilting adjustment on top bar for leading saw with proper tension against guide. Adjustment is made while saw is running.

Shaft. Is 13/16 inches in diameter, 4-inch full babbitted bearings and 12x3-inch tight and loose pulleys and belt shifter.

Shipping Weight 650 lbs.

Floor Space

Tight and Loose Drive Pulleys 4 ft. 6 in. x 3 ft. 2 in. 12-in. diam. x 3-in. face

Speed 350 R.P.M.

Power 2 to 4 H.-P.

99M86651/3—Jumbo 36-Inch Band Saw Machine, complete with one 3%-inch band saw. Price.....

## Century

30-Inch Band Saw Machine

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Frame. Heavy 2½-inch angle steel, electric welded together, 2x10-inch base timbers 4 feet long, set 2 feet apart.

Band Saw. 30-inch swing, cuts to center of 60inch circle.

Table. Measures 24x30 inches, stands 40 inches from floor and can be tilted for sawing bevels.

Saw Guides. Has two saw guides, upper guide has ball bearing disc and can be raised to saw material up to 8 inches thick.

Shipping Weight 575 lbs.

Floor Space 3 ft. 6 in. x 3 ft.

Tight and Loose Drive Pulleys 12-in. diam. x 3-in. face

while saw is running.

and belt shifter.

Speed 400 R.P.M.

Band Saw Wheels. Are 30 inches in diameter by 134-inch face, are covered with endless rubber bands and take saws 16 feet long. Upper wheel has

tilting adjustment on top bar for leading saw with

proper tension against guide. Adjustment is made

Shaft. Is 13/16 inches in diameter, 4-inch full babbitted bearings and 12x3-inch tight and loose pulleys

Power

99M86641/3—Century 30-Inch Band Saw Machine, complete with one 3/8-inch band saw. Price....

\$98.00





#### Guards for Band Saws

Guards can be furnished on any band saw machine, either single unit or combination. Guards are hinged on the right hand side and swing away from the machine to allow free access in changing saws.

99M86671/3-Guard for 22-Inch Band Saw. Price ...........\$5.80

99M86681/3-Guard for 30-Inch Band Saw. Price ......\$7.80

99M86691/3-Guard for 36-Inch Band Saw. Price ......\$9.75

#### How to Braze Band Saws

First. File each end of the blade bevel to make a lap joint. This bevel should extend back about two teeth.

Second. Place the blade in the clamp so the ends overlap in the center of the clamp. Put a little powdered borax between the lap and then insert a small piece of silver solder the size of the braze to be made.

Have the brazing tongs to a good red heat and press the joint with them, holding the tongs steady with a strong pressure until the tongs become a dull red. Then slide the tongs along the blade, back and forth a few times to insure a uniform braze.

Fourth. File the joint to the same thickness as the other part of the blade, paying particular attention to the teeth to see that they are in proper condition.

## Jewel

22-Inch Band Saw Machine

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

**Frame.** Heavy 2-inch angle steel, electric welded, 2x10-inch base timbers  $2\frac{1}{2}$  feet long, set 2 feet apart.

Band Saw. 22-inch swing, cuts to center of 44-inch circle.

Table. Measures 14½x17½ inches, stands 40 inches from floor and can be tilted for sawing bevels.

Saw Guides. Has two saw guides, upper guide has ball bearing disc and can be raised to saw material up to 7 inches thick.

Band Saw Wheels. Are 22 inches in diameter by 1½-inch face, are covered with

endless rubber bands and take saws 12 feet

Adjustment. Is very convenient. The upper wheel has tilting adjustment on top bar for leading saw with proper tension against guide, which is a very desirable feature, as it saves great wear and tear on saws and can be properly done while saw is running. Has handwheel for regulating the tension on saw, which also serves to lower upper wheel to accommodate shorter saws.

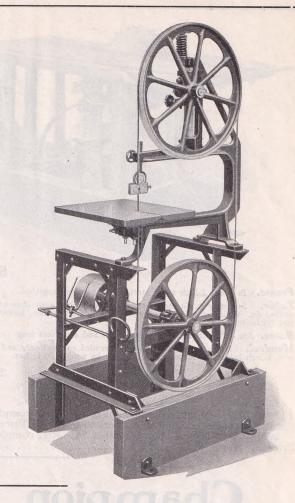
**Shafting.** 1-inch in diameter with 3-inch bearings, full babbitted; and 8x3-inch tight and loose pulleys with belt shifter.

Shipping
Weight
385 lbs.

Shipping
Floor Space
2 ft. 6 in. x 2 ft. 6 in.

99M86601/3-Jewel 22-Inch Band Saw Machine, complete with one 3/8-inch band saw. Price.....

\$73.00





18-Inch Band Saw Machine

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

 $\pmb{Frame}$ . Heavy  $1\frac{1}{2}$ -inch angle steel, electric welded together, 2x10-inch base timbers  $2\frac{1}{2}$  feet long, set 2 feet apart.

Band Saw. 18-inch swing, cuts to center of 36-inch circle.

Table. Measures 141/2x171/2 inches, stands 40 inches from floor and can be tilted for sawing

Saw Guides. Has two saw guides, upper guide has ball bearing disc and can be raised to saw material up to 6 inches thick.

Band Saw Wheels. Are 18 inches in diameter by 1½-inch face, are covered with endless rubber bands and take saws 10 feet 6 inches long.

Adjustment. Is very convenient. The upper wheel has tilting adjustment on top bar for leading saw with proper tension against guide, which is a very desirable feature, as it saves great wear and tear on saws and can be properly done while saw is running. Has handwheel for regulating the tension on saw, which also serves to lower upper wheel to accommodate shorter saws.

Shafting. 1 inch in diameter with 3-inch bearings, full babbitted; and 8x3-inch tight and loose pulleys with belt shifter.

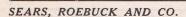
Guard. Is hinged at both top and bottom, and opens full width, making it easy to change saws.

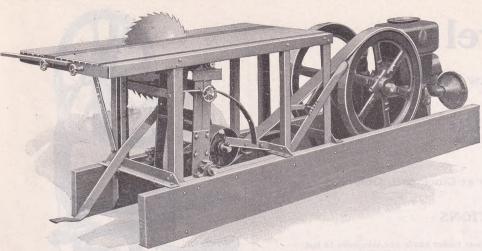
Shipping Weight 275 lbs.

Floor Space 2 ft. x 3 ft.

Tight and Loose
Drive Pulleys
Sin. diam. x 3-in. face
Speed
Fower
600 R.P.M. 1/2 to 1 H.-P.

99M86581/3—Rex 18-Inch Band Saw Machine, complete with one 3/6-inch band saw and guard. Price.......\$39.00





## Mogul

Heavy Timber Swing Cut-Off and Rip Saw Rig

Shipped Direct From Factory at Cincinnati, Ohio.

#### SPECIFICATIONS

Frame. Is heavy 2-inch angle steel, electric welded together.

Table. Is heavy angle steel, frame double riveted with channel steel slats welded on. Width of table is 3 feet, length 4 feet 6 inches, height of table 2 welded on. Wifeet 7½ inches.

Bases. Are 2x10 inches, set 24 inches apart and are 8 feet long.

**Mandrel.** Is  $1\%_{16}$  inches in diameter, threaded one end only and takes saws with 1-inch hole. The largest saw that can be used is 20 inches.

Countershaft. Is 13/16 inches in diameter. Driving pulleys 10x4-inch face, tight and loose are furnished if machine is ordered without engine.

**Guides.** Crosscut and rip guides are furnished. Rip guide is used on right hand side of saw and extends the full length of the table and is held rigidly in position by clamps in front and rear.

Saws. One 16-inch rip, and one 16-inch crosscut saw.

Shipping Weight 650 lbs.

Floor Space 4 ft. x 8 ft.

Tight and Loose . Drive Pulleys 10 in. x 4 in.

Speed 500 R.P. M.

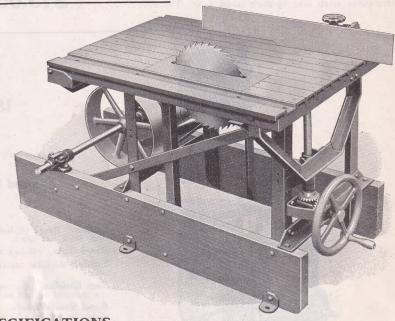
Power 5 to 10 H.-P.

\$117.00 245.00

## Champion

Rip and Cut-Off Saw Machine

Shipped Direct From Factory at Cincinnati, Ohio.



#### **SPECIFICATIONS**

 $\pmb{Frame}$ . Heavy 2-inch angle steel electric welded together, 2x10-inch base timbers 5 feet long, set 2 feet apart.

Saw Table. Heavy angle steel frame, with channel steel slats riveted to frame. Top surface ground level and true. Height 2 feet 9½ inches, width 27 inches Overhangs base on left side 10½ inches. Length 3 feet. Table hinged at back to raise or lower for regulating depth of cut. Has opening for 14-inch saw, which will cut up to 5 inches deep.

Tilting Guide. For rip saw tilts to angle of 45 degrees and is adjustable for ripping up to 17 inches in width. Furnished with spring for holding down material. Width of guide plate 4 inches, length 30 inches.

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length.

Saw Mandrel. 15/16 inches in diameter, 3934 inches long, threaded at both ends. Right and left hand threads, left end threaded 41/4 inches long, right end 6 inches long. Takes saws, cutter heads or emery wheels with 1-inch hole. Flanges 31/2 inches in diameter.

 $\pmb{Countershaft}.$  1% inches in diameter, large pulley 16x4-inch face. Tight and loose pulleys, 10x4-inch face.

Bearings. Are 4 inches wide and are full babbitted with high quality babbitt.

Shipping Weight

550 lbs.

Floor Space Floor Space 4 ft. 4 in. x 5 ft. 6 in.

Tight and Loose Drive Pulley to Belt to 10x4-In. Face

Speed 550 R.P. M.

Power 3 to 5 H.-P.

99M86381/3—Champion Rip and Cut-Off Saw Machine, complete with 12-inch rip saw, 10-inch cut-off saw and \$98.00 one 4-inch belt. Price.....

## Contractors' Special

Portable Saw Rig

Without Engine.

Shipped Direct From Factory at Cincinnati, Ohio.

#### **SPECIFICATIONS**

Table Top. Has angle steel frame with channel steel slats welded on. Table has adjustable side brackets on each side for attaching extensions on each side when working long material.

Frame. Is 2-inch angle steel electric welded together.

Rip Guide. Is adjustable for ripping any width up to 22 inches.

Crosscut Guide. Is 3 feet long and is held in position by two dowel pins. Can be quickly lifted off and rip guide put on. Has adjustable

stop for cutting to length.

Saws. One 12-inch rip saw, one 12-inch crosscut saw. Belt. Roller chain belt is furnished from countershaft to saw

mandrel, 3-inch belt from engine to countershaft is not furnished unless engine is ordered.

Shipping Weight, With Engine 850 pounds

Saw Mandrel. Is 13/16-inch cold rolled steel, threaded one end only and takes saws with 1-inch hole.

Countershaft. Is 13/16-inch cold rolled steel and has tight and loose pulleys so it can be started and stopped while engine is

Shipping Weight, Without Engine Floor Space 300 pounds 2 ft. 10 in. x 6 ft.

99M86901/2—Contractors' Special Portable Saw Rig, with 12-inch rip saw and 12-inch cut-off saw (omitting engine and engine belt). Price.....

\$73.00



Swing Cut-Off Saw

Shipped Direct From Factory at Cincinnati, Ohio.

#### SPECIFICATIONS

Frame. Is heavy angle steel, electric welded together. Table Top. Has heavy steel frame, electric welded, with channel steel slats.

Mandrel. 13/16-inch diameter, threaded one end and takes saws with 1-inch hole. A 12-inch saw will cut 1-inch stuff 15 inches wide, or 3-inch material 12 inches

The pulley on mandrel is 3x3-inch face; on lower shaft is 8x3-inch face and the pulleys to belt are 8x3-inch face, tight and loose. Speed, 900 R. P. M.

Lower Shaft. Is 13/16-inch cold rolled steel.

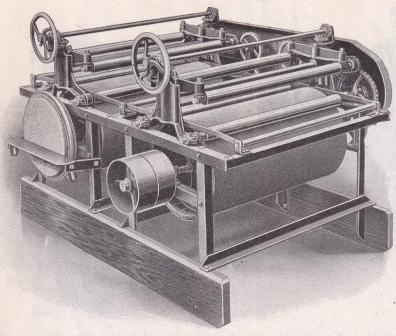
Saw. One 12-inch crosscut saw.

One 3-inch belt.

Floor Space

275 pounds 99M86951/3-Alert Swing Cut-Off Saw, with one 12-inch cut-off saw and one 3-inch belt.

## Model S



Self Feed Double Drum Sander

(Made in Two Sizes)

24-Inch

Shipped Direct From Factory at Cincinnati, Ohio.

#### SPECIFICATIONS

**Frame.** Heavy angle steel electric welded, no bolts to come loose. Machine always in perfect alignment.

**Drums.** Are 20 inches in diameter, built of laminated wood covered with heavy Brussels carpet and sandpaper.

**Feed Rolls.** Are of steel, ground true. Both upper and lower rolls are power driven. Entire upper mechanism can be elevated or lowered to sand any thickness of material up to 4½ inches.

Two-Speed Feed. Provides for coarse and fine sanding and also is so arranged that feed rolls can be stopped immediately.

**Oscillating Device.** Is furnished on all these style drums. It is very simple in construction. Consisting of only three parts. Keeps sandpaper clean and gives a better finish.

Sand Disc. Is 18 inches in diameter, provided with an adjustable tilting table.

Shipping Weight 1,175 lbs.

Floor Space 3 ft. 8 in. x 6 ft.

Tight and Loose Drive Pulley 10 in. x 4-in. face

Power 300 R.P.M. 5 H.-P.

99M87621/3—Model S 36-Inch Double Drum Sander, same as above, only 36 inches wide. Floor space, 4 ft. 343.00 8 in. x 6 ft. Shipping weight, 1,320 pounds. Price.....

## Model S

Self Feed Single Drum Sander

(Made in Two Sizes)

24-Inch

Shipped Direct From Factory at Cincinnati. Ohio.

#### SPECIFICATIONS

Frame. Heavy angle steel, electric welded, no bolts to come loose. Machine is always in perfect alignment.

 $\ensuremath{\textit{Drum.}}$  Is 20 inches in diameter, built of laminated wood covered with heavy Brussels carpet and sandpaper.

**Feed Rolls.** Are of steel, ground true. Both upper and lower rolls are power driven. Entire upper mechanism can be elevated or lowered to sand any thickness of material up to  $4\frac{1}{2}$  inches.

**Two-Speed Feed.** Provides for coarse and fine sanding and also is so arranged that feed rolls can be stopped immediately.

Oscillating Device. Is furnished on all these style drums. It is very simple in construction, consisting of three parts. Keeps sandpaper clean and gives a better finish.

Sand Disc. Is 18 inches in diameter, provided with an adjustable tilting table.

660 lbs.

3 ft. 8 in. x 2 ft. 10 in.

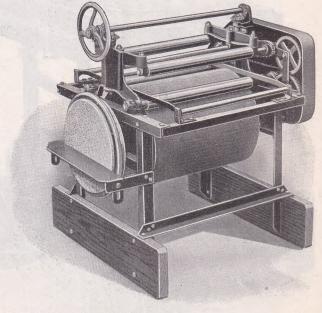
Shipping Weight Floor Space Tight and Loose Drive Pulley 10 in. x 4-in. face

Speed 300 R.P.M.

.....\$147.00

99M87421/3—Model S 24-Inch Single Drum Sander. Price.... 99M87471/3-Model S 36-Inch Single Drum Sander, same as above, only 36 inches wide. Floor space, 4 feet 8 inches x 2 feet 10 inches. Shipping weight, 720 pounds. Price.....

195.00



Peerless

Flexible Endless Belt Sander **SPECIFICATIONS** 

**Belt Standards.** The main belt standards are independent and built of heavy 2-inch angle steel, electric welded together. They are self-supporting and can be placed any distance apart to accommodate any length of stock.

Table. The table frame is built of heavy 2-inch angle steel, double riveted and electric welded together forming a rigid and substantial foundation for the table. The work table has a vertical adjustment by hand wheel of 10 inches. The table stands 32 inches from the floor and is adjustable up to 42 inches. Table is 30 inches wide by 72 inches long and is built of wood. The table is mounted on ball bearing rollers making it easy to move back and forth.

**Overhead Idlers.** Run on bronze bushed bearings. Both idlers are adjustable for aligning sand belt and one idler has an adjustable spring to regulate tension of the belt.

Pulleys. The main sand belt pulleys are 16-inch diameter by 6-inch face. Both sand belt pulleys are faced with rubber. Tight and loose pulleys to belt to are 10-inch diameter by 4-inch face. No countershaft is required as the tight and loose pulleys are placed on the main drive shaft of machine.

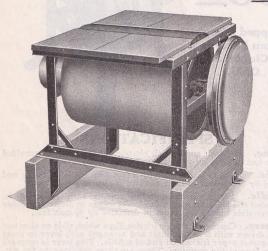
**Bearings.** Are 4 inches wide and full babbitted with best quality babbitt. The bearings are carefully fitted to the shafts and provided with convenient oiling devices.

Power. 3 H.-P. required.

99M87381/3-Peerless Flexible Belt Sander with one 6-inch Sand Belt.

\$195.00

Shipping weight, 990 pounds.



## Economy

\$195<u>00</u>

Shipped Direct From Factory at Cincinnati, Ohio.

Sanding Machine (Made in Two Sizes)

Shipped Direct From Factory at Cincinnati, Ohio. **SPECIFICATIONS** 

welded together.

Drum. 20-inch diameter made of laminated wood strips turned perfectly true.

Sand Disc. 18-inch diameter.

Frame. 2-inch angle steel, electric | Drum is covered with brussels carpet

Tight and Loose Drive Pulley Floor Space

300 lbs. 3 ft. x 3 ft.

Speed Power 350 R. P. M. 2 H.-P. 10x4 in.

99M87641/3—Economy Sanding Machine, 24-Inch, complete.

99M87661/3—Economy Sanding Machine, 36-Inch, complete.

\$58.00 73.00

Shipping weight, 400 pounds.

#### Garnet Cloth Sand Belt

In 50-Yard Rolls.

99M87521/3

State Size Number and Width.

Shipping Weight, Per 50-Yard Roll Size 10 lbs. No. 1/2 No. 1

6-Inch \$11.75 13.00

8-Inch \$14.50 16.50

Sandpaper In 50-Yard Rolls. 99M8750<sup>1</sup>/<sub>3</sub>

State Size Number and Width.

85 1bs

Shipping Weight, Per Roll of 50 Yards Per Yard Per Roll of 56 lbs. 24 Inches Wide Per Yard Per Roll Per Yard Per Roll of 56 lbs. 24c \$11.25 38c \$17.50

18.25

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Size

No. 11/2

No. 2



**Turning Lathe** 

#### **SPECIFICATIONS**

Head and Tail Stock will swing up to 16-inch in diameter and takes 40 inches between centers when mounted on a 6-foot bed.

Lathe Bed is made of channel steel with angle steel legs which are electric welded together making a very substantial bed.

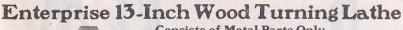
Spindle is 1½-inch diameter, threaded both ends so face plate can be used on either end. Spur center has No. 2 Morse taper.

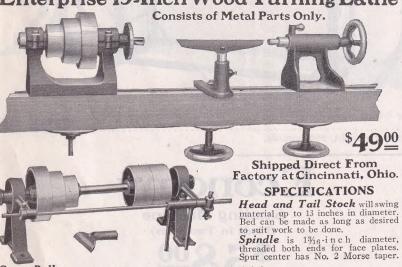
Face Plates, two sizes are furnished, large size 94-inch diameter; small size 44-inch diameter.

Cone Pulley is 4-Step Cone type which takes 2-inch belt. Countershaft has cone pulley to match cone pulley on lathe head. Tight and loose pulleys are 8-inch diameter by 3-inch face.

**Bearings** are well babbitted and are equipped with oiling devices.

99M86301/4—Progress 16-Inch Turning Lathe, complete with 6-foot bed, spur center, two face plates, two chisel Price....





Shipped Direct From Factory at Cincinnati, Ohio.

**SPECIFICATIONS** 

Cone Pulley is 3-Step Cone type which takes 11/2-inch belt.

Face Plates, two sizes are furnished, 91/4-inch and 41/4-inch diameter.



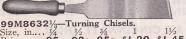
#### **SPECIFICATIONS**

**Head and Tail Stock** will swing material up to 11 inches in diameter. Bed can be made as long as desired to suit work to be done.

**Spindle** is 1 inch in diameter, is threaded for face plate and has taper socket for spur center. Nut and collar at both ends for circular saw or emery wheel up to 10 inches in diameter by 1 inch thick with 7%-inch hole. Size of pulley, 3x3 inches.

Bearings. Each bearing has two complete circles of balls, which run in hardened steel races. 

#### Turning Chisels With Handles.



Turning Gouges With Handles.

99M86331/3-Turning Gouges.

Size, in... 1/4 1/2 3/4 1 11/2 Price .... 95c \$1.05 \$1.20 \$1.45 \$1.70 ze, in... 1/4 1/2 3/4 1 11/2 Size, in... 1/4 1/2 3/4 1 11/2 Size, in... 1/4 1/2 3/4 Price ... 1/2 1/2 Size, in... 1/2 3/4 1 11/2 Size, in... 1/2 3/4 1 1/2 Size, in... 1/2 3/4 Size ... 1/2 Size ... 3/4 in. 1 in. 1/2 in. 1/2 in. Price, per foot ... 95c \$1.20 \$1.45 Size, in.... ¼ ½ ¾ 1 1½ 1½ Price ..... 85c 90c 95c \$1.20 \$1.45

Quick Reverse Spindle Shaper



**Shipped Direct** From Factory at Cincinnati, Ohio.



#### **SPECIFICATIONS**

Frame. Is 2-inch angle steel, electric welded. Hole is provided in the foot of each leg to bolt stand to the floor.

Table. 14 to 18 inches wide by 2 feet 2 inches long, raises and lowers by handwheel to limit of three inches to adjust cut.

Spindle. 1-inch diameter, takes cutters with 1%-inch hole. Threaded end 334 inches long, flange 234 inches in diameter. Collar for reversible knives 136 inches in diameter by 34-inch face.

Reverse. Consists of double friction discs which slide on countershaft, driven with a key in shaft and arranged with lever to press disc against paper friction on end of spindle. This lever is operated by the knee of the operator. There are three positions, to the left, to the right, and in the center, which is the neutral position.

Countershaft. 13/16 inches in diameter with 4-inch full babbitted bearings.

Tight and Loose Drive Pulley 8x3 in. Speed 550 R. P. M. Shipping Weight 250 lbs. Power H.-P.

99M87681/3—Quick Reverse Shaper, complete with slotted collars and two \$78.00 straight edge knives. Price.....

### Shaper Collars

For Use on Shaper Spindle.

The diameter of these collars is 2 inches. Slots in collars take bevel shape steel with 60-degree bevel.

99M87711/3—Pair of Slotted Collars for shaper spindle with two straight edge knives. Price \$2.90

## Pioneer

Ball Bearing Circular Rip and Crosscut Saw Machine

For Hand and Foot Power.

\$7300

Shipped Direct From Factory in Cincinnati, Ohio.

#### **SPECIFICATIONS**

Frame. Is 1½-inch angle steel, strongly braced and electric welded together. Mounted on 2x10-inch wood bases 32 inches long, set 2 feet apart.

**Saw Table.** Is angle and channel steel. Top surface ground level and true. Hinged at back for raising or lowering, adjusting depth of cut up to 3 inches. Height 2 feet 10 inches, width 18½ inches. Overhanging right side 5 inches. Length 3 feet.

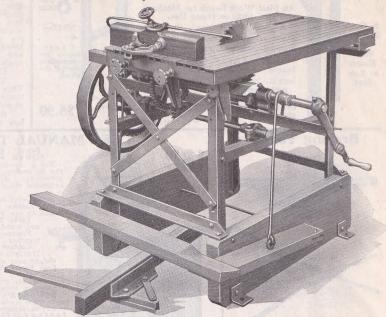
**Rip Guide.** Adjustable to cut any width up to 22 inches wide. Furnished with adjustable wood spring for holding down material.

Crosscut Guide. Slides in iron groove, has angle adjustment of 45 degrees and adjustable stop for cutting material to length.

Saw Mandrel. 1 inch in diameter, 3\%-inch flanges, takes saws up to 10 inches in diameter with 7\%-inch hole. Threaded end 3\%-inches long.

**Bearings.** Five ball bearing journals, 2 inches wide. Each journal has two complete circle of balls. These wide double ball bearing journals insure easy running and save physical exertion on the part of the operator.

Crank and Treadle. Are arranged so that either or both may be used at the same time. Crank comes up as treadle goes down, giving operator the advantage of naturally applying the maximum amount of power on the treadle when the lift is up on the crank. Crank is adjustable for different lengths. Machine can be set to operate at either fast or slow speed to suit the different kinds of work.



#### Tenoning Tool.



#### Mortising Chisels.



99141004073		
Size       1/4 in.         Weight       5 oz.         Price, each       85c	5/16 in. 5 oz. 90c	3/8 in. 5 oz. 95c
Size	1/2 in. 6 oz. \$1.05	5% in. 6 oz. \$1.10
Size       34 in.         Weight       6 oz.         Price, each       \$1.15	7/8 in. 8 oz. \$1.20	1 in. 9 oz. \$1.25

## Gem

Mortising and Tenoning Machine

For Foot Power.

\$2900

Shipped Direct From Factory in Cincinnati, Ohio.

#### SPECIFICATIONS

Frame. Made of 1½-inch angle steel, strongly braced and securely bolted together, height 6 feet 3 inches. Base 24x24 inches.

Guide Bed. Stands 32 inches from floor and can be tilted any angle up to 45 degrees.

As a Mortising Machine. Makes mortises any length desired up to 10 inches wide by 1 inch thick. The two middle collars are connected around the chisel shaft for setting chisel square. Tool is reversed by turning reverse handle and tightening thumbscrew.

As a Tenoning Machine. Makes tenons any length desired up to 5 inches wide from one edge or 10 inches wide by reversing work and cutting from both edges and from ¼ to ¾ inch thick with 1-inch shoulder on each side. When using tenoning tool, a piece of wood is placed on guide plate for bits to cut into.

**Treadle Rod.** Leverage on treadle rod is adjustable for long or short stroke to suit hard or soft woods. Handwheel at lower end of rod regulates depth of cut.

Floor Space required, 2 feet 4 inches by 2 feet 6 inches.

99M8635<sup>1</sup>/<sub>3</sub>—Gem Mortising and Tenoning Machine, with tenon tool and one <sup>3</sup>/<sub>8</sub>-inch mortise chisel. Shipping weight, <sup>100</sup> pounds. Price. \$29.00



#### Fulton Work Bench.



\$1850

#### Advance Miter Box.

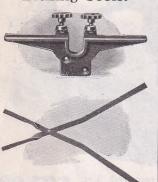
Advance Miter Box.

Ball bearings in arm make the Advance Miter Box work easily, the saw run true and free and prevent wear. Saw guide is lined with bronze strips, adjustable by gib screws.

All angles set and held by friction grip. Extra pin lock for important angles. Both friction grip and pin lock easily and quickly operated by slight pressure of one hand. A simple adjustment beneath the frame takes up wear on the swinging arm and insures absolute accuracy of angles at all times.

The length stops can be set for duplicate pieces and crown moldings. These are all exclusive features found only on the Advance Miter I

#### Brazing Tools.



99M88271/3—One piece of brazing band saws.

tongs.

silver solder and borax for Price......**24c** 99M88281/3 - Brazing clamp. Price......95c 99M88291/3 - Brazing Price......49c



POWER Band Saw Machine

Not a toy-but a real honest-to-goodness saw that can be readily operated by any ordinary boy of high school age. Also makes a handy machine for small carpenter shops, etc.

Swing-10½ inches.

Saw Guides are adjustable. Upper guide can be raised to saw material up to 2 inches thick.

Table Top of hardwood measures 18x19 in and stands 31 inches from floor.

Frame-1½-in, angle steel, riveted and bolted together.

Cabinet for holding tools, drawings, etc., 11x12x20 inches high inside.

Height over all, 44 inches.

Foot Power-Drive wheel, 11x1½ inches with pedals and complete with belt.

Shipping weight, 125 lbs.

99M5645½ — Complete with belt.

Shipping weight, 125 lbs.

99M5645½ — Complete with there %a-in. band saws.

\*Price, shipped direct from factory at CINCINNATI, OHIO, or from our CHI-CAGO or PHILA-18.50

\_\*Not Mailable.

Extra Band S aw Blades for above, Size. %a in, by 66 FOOT Band Saw Machine

Extra Band S a w Blades or above. Size, %6 in. by 66 n. Weight of three, 4 oz. 99M5647% - Price, per package of \$1.35

Band Saw Blades, and Stool shown above, ship-ped direct from factory at CINCINNATI, OHIO, or from our CHICAGO or PHILADELPHIA store.



For "Manual Trainer" Band Saw Machine. Adjustable from 20 to 25 inches in height. Shpg. wt., 36 nounds. 99M56461/3 \$2.40

#### 4-Side Molding Heads.

For Jointing, Gaining, Tenoning, Sticking Sash, Flooring, Molding, Etc.



Used on end of saw mandrel outside of bearings. Bits can be adjusted to cut up to 34-inch deep. Cutting edge circle 5½ inches.

Made in two sizes.
2-inch Head takes knives with one 2-inch head takes knives with one slot.
4-inch Head takes knives with two slots.

4-inch Head takes knives will two slots.

99M8788/3-2-Inch Four-Side Molding Head with two straight edge knives 2 inches wide and one side cutter. Price \$7.25

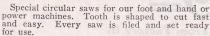
99M8792/3-4-Inch Four-Side Molding Head with two straight edge knives 4 inches wide and one side cutter. Price \$8.75

99M8793/3-Side Cutters for tenoning or gaining. Price \$9.00

99M8794/3-Straight edge knives 2 inches wide by %-inch thick, tempered. Price \$2.40

99M8796/3-Straight edge knives 4 inches wide by %-inch thick, tempered. Price \$4.00 99M87961/3—Straight edge knives 4 inches wide by 3/4-inch thick, tempered. Price \$3.40

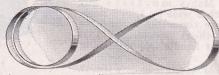
## Circular Saws.



Diam.	Gauge 18	Hole in Saw 7% or 1 in.	99M88301/3 Crosscut Sa \$1.70	w Rip Saw
8 in.	18	7/8 or 1 in.	2.20	2.20
10 in. 12 in.	16 15	% or 1 in. 1 in.	2.90	2.90
14 in.	15	1 in.	3.90 4.90	3.90 4.90
16 in.	14	1 in.	5.85	5.85

#### Band Saw Blades.

Special band saw blades for our foot and hand power or belt power machines -extra thin, easy cutting, set, filed and



brazed ready for use; 1/4 and 3/8-inch sizes are best for general work, 3/4 and 1-inch sizes should be used only for long curves and straight line sawing on power machines.

18-Inch Band Saw Machines require saw 10 ft. 6 in. long. 22-Inch Band Saw Machines require saw 12 ft. long. 30-Inch Band Saw Machines require saw 16 ft. long.

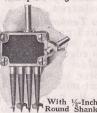
36-Inch Band Saw Machines require saw 17 ft. 6 in. long. Width of blade......3/16 in. 1/4 in. 3/8 in. 1/2 in. 5/8 in. 99M88221/3 .....\$1.15 \$1.35 \$1.45 \$1.70 \$1.95 \$2.20 \$2.45 99M88231/3 ...... 1.35 1.55 1.70 1.95 2.20 2.55 2.80 99M88241/3 ...... 1.70 1.95 2.20 2.45 2.75 3.15 3.50 99M88251/3 feet 6 inches...... 1.95 2.15 2.45 2.65 3.05 99M88261/3 ..... .07 .09 .11 .13 .15 .18 .19

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#### Adjustable Dado and Grooving Head.



#### Multiple Boring Bits.



With ½-Inch Round Shank. Make a perfect mortise, no cutting, trimming or fitting necessary. Ship-ping weight, 4½ pounds.

#### Machine Wood Boring Bits. With 1/2-Inch Round Shank.



Hollow Chisels and Bits.



ping weight, 4½ pounds.

99M88 [5½] — Quadruple Bit, bores four <sup>13</sup>/<sub>16</sub>, in. holes, centers ½ in. apart, makes a mortise of correct size for regular sash pulleys. Price. \$17.50

99M8820½ — Triple Bit, bores 3 1-in. holes, centers ¾-in. apart. \$17.50

little First William (1990) | Price, each \$5.80 \$5.90 \$6.00 \$6.50 \$7.00 \$7.50 \$8.25

#### Molding Knives For Square Heads These knives are made from high grade tool steel and are sharpened and tempered ready to use. 99M89071/3 99M89051/3 99M89041/3 99M89091/3 1/2 x 1/4 1/2 x 5/8 3/4 x 13/8 99M89081/3 99M89011/3 99M89131/3 99M89111/3 99M89021/3 99M89031/3 3/4 x 7/8 3/4 x 3/4 1/2 x 1 1/4" 99M89121/3 99M89001/3 13/16 x 31/4 99M89151/3 99M89141/3 99M89061/3 99M89101/3 13/16 x 13/4 34 x 384 99M89001/3—Price \$5.85 99M89011/3—Price 3.40 99M89021/3—Price 3.40 99M89031/3—Price 3.40 99M8904<sup>1</sup>/<sub>3</sub>—Price \$3.40 99M8905<sup>1</sup>/<sub>3</sub>—Price 3.40 99M8906<sup>1</sup>/<sub>3</sub>—Price 4.40 99M8907<sup>1</sup>/<sub>3</sub>—Price 3.40 99M8908<sup>1</sup>/<sub>3</sub>—Price \$3.40 99M8909<sup>1</sup>/<sub>2</sub>—Price 3.90 99M8910<sup>1</sup>/<sub>3</sub>—Price 7.80 99M8911<sup>1</sup>/<sub>3</sub>—Tongue, Price. 3.40 Steel Reversible Solid Knives tration. These knives are sharpened from the These knives are used on upright reversible | inside so a sharp cutting edge can be given them spindle shaper with spindle running in either direction. They are made from a solid piece of tool steel, and hollow ground, as shown by illuswithout disturbing the cutting shape, which is (Illustrations show full size shape of the wood material.) 99M89211/3 99M89201/3 99M89191/3 99M89181/3 99M89171/3 99M89161/3 99M89261/3 99M89271/3 99 M89251/3 99M89241/3 99 M89231/3 99M89221/3 99M89281/3 99M89301/3 99M89291/3 99M89311/3 99M89321/3 99.M89331/3 99M89341/a 99M89351/3 99M89361/3 99M89371/8 99M89381/3 99 M89391/a Ouarter Round 99M8928½—Price \$3.40 99M8929½—Price 3.90 99M8930½—Price 4.40 99M8931½—Price 4.90 99M8922<sup>1</sup>/<sub>3</sub>—Price \$3.40 99M8923<sup>1</sup>/<sub>3</sub>—Price 3.90 99M8924<sup>1</sup>/<sub>3</sub>—Price 4.40 99M8925<sup>1</sup>/<sub>3</sub>—Price 4.90 99M8926<sup>1</sup>/<sub>3</sub>—Price 5.35 99M8927<sup>1</sup>/<sub>3</sub>—Price 5.85 99M8934<sup>1</sup>/<sub>3</sub>—Price 99M8935<sup>1</sup>/<sub>3</sub>—Price 99M8936<sup>1</sup>/<sub>3</sub>—Price 99M8937<sup>1</sup>/<sub>3</sub>—Price 99M8938<sup>1</sup>/<sub>3</sub>—Price 99M89161/3—Price \$5.85 99M89171/3—Price 5.35 99M89181/4—Price 4.90 99M89191/3—Price 4.40 Price ......\$5.85 5.85 4.90 4.40 3.90 3.90 99M8932<sup>1</sup>/<sub>3</sub>—Price 99M8933<sup>1</sup>/<sub>3</sub>—Price 3.40 5.85 ALL GOODS SHOWN ON THIS PAGE SHIPPED DIRECT FROM FACTORY AT CINCINNATI, OHIO.

Pulleys, Shafting, Belting and Accessories

6c

9M7072½
Wood Split Pulleys, in small sizes. State

Width of Face | 3-Inch | 4-Inch | 6-Inch

\$1.80 1.90 2.00

Price, Price, Each Each

\$1.95 \$2.15 2.05 2.25 2.15 2.35

Weight, Price, Pounds Each

All merchandise on this page shipped only from our Chicago or Philadelphia store.

COLD DRAWN STEEL SHAFTING.

Smooth, straight steel, uniform in size the entire length. We do not furnish other than sizes and lengths listed.

99M7016—Cold Rolled Steel Shafting in 4, 5, 6, \*8, \*10, \*12, \*14 and \*16-foot lengths. State size and length.

Size, inches 34, 1 114 112 114 12 2

Shipping weight, foot, about, pounds 1.4 3 5 6 9 11

Price, per foot (\*Not Mailable.) 6c 12c 18c 2 1c 30c 39c

\$180 to \$630 Wood Split Pulleys.

All sizes are split and can be taken apart and put on shaft without disturbings complete. Be sure to state size of shaft.

Steel Prices quote bushings completes and bushings completes are split and can be taken or pulleys and bushings completes are size of shaft.

Prices quoted are for pulleys and bushings complete. Be sure to state 99M70301/2—Wood Split Pulleys, in large sizes. State size.

Width of Face 4-Inch 6-Inch Diam., Weight, Price, Pounds Each Each

9M7073½—Steel Split Pulleys, in small sizes. State size.

Steel Split Pulleys.

GIVE SIZE OF SHAFT. Width of Face | 3-Inch 4-Inch Weight, Pounds Diam., We cannot fill your order for pulleys unless you do. Also give width of face and diam-eter of pulley. \$1.80 2.00 2.20 2.40 \$2.60 \$2.95 7 to 8

For Machine Oils or Cup Grease, see our big General Catalog.

6-Inch



99M70401/2-Steel Split Pul-

Width	of Face	4-Inch	6-Inch
Diam.,	Weight,	Price,	Price,
In.	Pounds	Each	Each
8	12 to 15	\$2.80	\$3.30
10	17 to 20	3.10	3.60
12	20 to 25	3.40	3.95
16	30		4.90
20	35		6.30
24	40		8.95

Prevents Slipping, Saves Power.

The slipping of canvas belts on pulleys burns the life out of the fiber, thus shortening the life of the belt. Prevent this by covering your pulleys with "Bulldog Grip" Canvas Pulley Covering.

Outfit consists of 10 square feet of heavy canvas complete with cement, brush, scraper and full directions for applying. Shipping weight, 5 pounds.

99M7802-Price, complete ... \$3.50 Rubber-ite Belt Dressing.

Prolongs life of belts and prevents slipping on pulleys. For canvas, leather or rubber belts. Peccanially canvas RUBBEI Canvas

Bulldog

Grip Canvas Pulley Covering. Doubles Life of Belts.

RUBBER-ITE

BELT DRESSING

#### VALUE IS MEASURED BY QUALITY as well as price. We make sure that the quality of all our goods is right. Line Shaft Friction Clutch Coupling.

Coupling.

Saves power,
Permits the operation of part or all of line shaft as desired. Price is for coupling complete with 3-foot iron pipe handle. Can also furnish with one end of coupling bored for larger size shaft in which case coupling is special and is shipped direct from factory only and of largest shaft size.

Catalog No.	For Shaft Size	Shpg. Wt., About	Price Complete
99M7044½	34 in.	6 lbs.	\$ 7.75
99M7045½	1 in.	6 lbs.	8.00
99M7046½	1¼ in.	17 lbs.	12.75
99M7047½	1½ in.	17 lbs.	13.00
99M7048½	1¾ in.	29 lbs.	16.75
99M7049½	2 in.	29 lbs.	17.00

Rigid Pillow Blocks. Babbitted. Lag attaching. 9M7075—State size.

For Shaft Wt. Each Shaft Shaft

Improved Post Blocks. Babbitted. Lag screws furnished for attaching.
9M7076—State size. Shpg. Wt. - 2½ lbs. 2½ lbs. 4 lbs. 6 lbs. 8 lbs. 12 lbs. Each \$0.70 .85 1.05 1.30 1.65 2.00

Round Leather Belting. 9M7140 — Diameter, 1/4 inch. Weight, foot, 1/4 0.2. Price, per foot ... 7c 9M7141—Diameter. 1/4

9M7141-Diameter, 5/16 inch. Weight, foot, 1/2 oz. Per foot. 11c 

 
 Pounds
 Each
 Each

 4 to 6
 \$2.25
 \$2.50

 5 to 9
 2.40
 2.70

 7 to 13
 2.60
 3.10

 16
 4.20
 4.90

 25
 5.60
 30
 Friction Pulley Clutch.

Price is for clutch only with 3-foot handle complete with bushing to fit wood or steel pulley. State catalog number, size of shaft, diameter and face of pulley and if ordering clutch alone state diameter of bore of pulley clutch is intended for

Size	Size o	f Hub	Shpg.	99M7 For Wood	7050½ Split Pulleys.	99M7 For Steel S	055½ plit Pulleys
	Diam.		Abt.,	Fits Pulley: Diam. In.	Only	Fits Pulleys Diam. In.	
1 in.	1½ in. 2½ in. 2½ in. 3 in.	5½ in. 7 in. 7 in. 9 in.	7 lbs.	6 to 24 6 to 24 8 to 24	8.75 12.90 12.95 18.10	4 to 24 4 to 24 8 to 24 8 to 24 10 to 24 10 to 24	\$ 8.65 8.70 12.80 12.85 18.00 18.10





For Main Drives or Individual Machines.

Universal Ball and Socket Hangers.

Double braced, wick oiling pattern, bearings babbitted and ready for use. Bearings are held securely in place by four set screws. Bearings have large oil for borop. State our catalog number and size of shaft hanger is wanted for. Furnished complete with lag screws for Potters.

Patent Compression \$420 Flange Coupling.

11/4 In Does not require key seat on aft. Complete with wrench. 99M7060-State size.

For shaft, in.¾ 1 1¼ 1½ 1¾ 2 Shpg.wt.,lbs. 6 8 11 14 17 27 Price, ea. \$3.20 \$3.70 \$4.20 \$4.80 \$5.40 \$6.20

GALL	Shaft Size	Wt., Abt., Lbs.	Price, Each
99M70801/2	3/4 in.	12	\$2.05
Adjustable from 6 to 8-inch drop.	1 in. 1¼ in. 1½ in.	13 14 15.	2.30 2.60 2.95
99M708   ½ Adjustable from 8 to 10-inch drop.	1 in. 1¼ in. 1½ in. 1¾ in.	24 25 26 28	2.55 2.85 3.20 3.60
99M7082½ Adjustable from 10 to 12-inch drop.	1½ in. 1½ in. 1¾ in. 2 in.	26 27 29 32	3.00 3.35 3.75 4.20

Safety Collars for AOC Shafting.
Furnished with set 1¼-1n. screws set in flush with collar. Approved by all factory invention laws. 9M7074—State size.

For shaft, in. 3/4 Weight, lbs. 1/4 25c 30c 40c 50c 60c 70c THOUSE OF THE PARTY OF THE PART

18c Per Ft. 4-Inch, 4-Ply.



An excellent dressing. Prevents slipping. Does not harden or injure belts. In sticks of 1 pound.

9M7 127-Price, per stick......22c

STEEL BELT LACING. In boxes sufficient to lace 100 inches of belting. Assorted lengths, 11/4 to 23/4 Per Box

9M7110 State size wanted. Width, Lacing 34 in. 1 in. 11/4 in. \$0.80 .90 1.15 1 lb. 1½ lbs. 2 lbs.

Extra Quality Rawhide Cut Lace.

# 9M7116-State width.

Price, bt. 100 Ft. \$1.00 1.50 2.25 2.70 | SM/ | 10 - State | S INDIAN TAN CUT LACE.

9M7 | 17-State width. Price, Abt. 50 Ft. Abt. 100 Ft. \$0.65 \$1.20 .95 1.80 1.25 2.40 1.55 3.00 Weight, Ounces

HANDLED BELT AWL.



#### Red Stitched Canvas Belts in Cut Lengths.

Made of heavy cotton duck or

with rows of stitching close together. Thoroughly scaked in oil to keep it flexible and water-proof and then painted red with a special composition paint which gives it an excellent friction. Thoroughly stretched before leaving the factory. Especially recommended for threshers, sawmills, quarries, woodworking plants and similar usered. Width 1½ in. 2 in. 2½ in. 3 in. 3½ in. 4 in. 4½ in. 4½ in. 20. 2½ oz. 3 oz. 4 oz. 5 oz. 6 in. 4 in. 4½ in. 4½ in. 5 in. 6 in. 7 in. 8 in. 9 in. 10 in. 12 in. 10 c. 11 oz. 11 oz. 11 oz. 11 oz. 12 in. 10 cy. 12 in. 15 oz. 17 oz. 17 oz. 19 m. 10 in. 12 in. 10 c. 11 oz. 12 in. 10 oz. 12 oz. 14 oz. 15 oz. 17 oz. 17 oz. 17 oz. 10 oz. 11 oz. 12 oz. 14 oz. 15 oz. 17 oz. 17 oz. 10 oz. 11 oz. 12 oz. 14 oz. 12 oz. 14 oz. 15 oz. 17 oz. 17 oz. 10 oz. 11 oz. 12 oz. 14 oz. 12 oz. 14 oz. 15 oz. 17 oz. 12 oz. 14 oz. 14 oz. 12 in. 12 in. 14 in. 15 in. 6 in. 7 in. 8 in. 9 in. 10 in. 12 in. 14 in. 15 in. 6 in. 7 in. 8 in. 9 in. 10 in. 12 in. 14 in. 15 in. 6 in. 7 in. 8 in. 9 in. 10 in. 12 in. 14 in. 15 in. 14 in. 15 in. 6 in. 7 in. 8 in. 9 in. 10 in. 12 in. 14 in. 15 in. 15 in. 15 oz. 12 oz. 14 oz. 14 oz. 14 oz. 19 oz. 25 oz. 28 oz. 10 oz. 12 oz. 14 oz. 14 oz. 16 oz. 19 oz. 22 oz. 25 oz. 28 oz. 10 oz. 1

RUBBER BELTING.

Made of heavy duck, treated and coated with rubber compound. Standard Brand Rubber Belting, for light work, hand power machines and farm machinery. Leader Brand Rubber Belting, for ordinary mill and shop use. Defiance Brand Rubber Belting, for heavy loads and hard strains. State width wanted. NOTE—We do not recommend rubber belts for use on threshers, as canvas belting is superior for such use. Width, inches
Weight, per foot, ounces.
99M736—2-Ply Standard Brand. Per foot,
99M7370—3-Ply Leader Brand. Per foot.
99M7380—4-Ply Defiance Brand. Per foot. 





#### LEATHER BELTING.

6c

7c to \$1.06 per Foot.

Agricultural Standard Leather Belting (Light Oak Tanned Leather), suitable for hand power machines, farm machinery, etc. Extra Factory Standard Leather Belting (Short Lap Oak Tanned Stock), suitable for regular mill and factory use. High Speed Special Leather Belting (Heavy Selected Oak Tanned Leather, strictly short lap, cut from solid part of hide, thoroughly stretched), suitable for high speed machinery, small pulleys, heavy loads, main drives, etc. Be sue to state width wanted

T Il I la		11 77	stilley by liet	. v J 10u	and man	T CITIAC	23, 666,	De a	sure to	State	MICHIT	wanteu.
Leather belt	ng is not	suitabl	e for outdo	or use	where :	it will	get w	ret.				
Width, inches	1	11/4	11/2 13/4	2	21/2	3	4	5	6	7	8	10
Weight, per foot, ounces	3/4	1	11/2 2	21/2	41/4	6	7	9	11	12	141/4	17
99M7330-Agricultural Standard, Per fo	ot 70	Qc.	11c 13	150	100	230		700000				
99M7340-Extra Factory Standard. Per	foot. 80	110	14c 17	200	240	280	35c	420	400	The state of the	-34 12	
99M7350-High Speed Special. Per foot	1000	THE PARTY OF	180	240	300	3.60	160	560	660	760	060	41 00
Down Special Person			100		300	200	400	300	000	100	900	91.00

n Circular S

Are Made of Special Saw Steel of the Correct Gauge or Thickness for the Size and Kind of Saw and With the Proper Number of Teeth as Listed Below.

Saws are evenly tempered, ground on special machinery, and are carefully balanced and tested at full speed. Every Fulton Circular Saw is hand smithed and hand blocked, hand filed and hand set, and sent out ready for use.



#### Fulton Circular Cut-Off Saws.

speed saws, for use in factories, mills and general woodworking plants. State

diameter.

9M5000—Fulton Circular Cut-Off Saws in small sizes. Arbor Gauge Hole, In. Rev.per Teeth Wt., Minute in Saw Lbs. 1/4 \$1.20 1/2 1.60 3/4 2.00 3/4 3/4 7/8 5,000 110 19 1.60 2.00 2.75 3.50 18 4.800 4,600 16 100 3,300 90

15 2,800 NOTE - State whether 1% or 11/2-inch arbor hole is wanted on 28 and 30-inch

99M5955 Saws in large	- Fulton sizes.	Circular	Cut - Off

Saw	s in	large size	s.				
Diam. In.	Gauge	Arhor e Hole,in.	Rev.per Minute	Teeth in Saw			Price, Each
16	14	11/8	2,500	90	53/4		.75
18	13	11/4	2,250	80	73/4		.00
20	13	15/16	1,950	80	91/4		.50
22	12	15/16	1,750		15		.00
24	11	13/8	1,600		18		.00
<b>★</b> 26	11	13/8	1,500		20		.00
★28		13/8 or 11/2	1,400		23		.50
<b>*</b> 30		13/8 or 11/2	1,300		27		.00
★32	10	15/8	1,225		33		.00
★34	9	15/8	1,125		40		.00
<b>★</b> 36	9	15/8	1,075		45	28	.00
	100	*No	t Mai	lable.	Series .		

#### Fulton Circular Rip Saws.

High speed saws, for use in factories, mills and woodworking plants generally. State diameter.

9M5001-Fulton Circular Rip Saws in small sizes.

99M5953-Fulton Circular Rip Saws in large sizes.

In.	Gauge	Hole, in.	Minute	in Saw	Lbs.	Each	
4	19	3/4	5,000	38	1/4	\$1.10	
6	18	3/4	4,800	38	1/2	1.50	
8	18	7/8	4,600	38	3/4	1.90	
10	16	1	4,000	36	11/2	2.65	
12	15	1	3,300	36	3	3.40	1
14	15	11/8	2,800	36	4	4.40	1
N	OTE-	-State	whether	13/8	or	1½-inch	1

NO	re-s	tate	wheth	er	13/8	or	1½-inch	1
arbor	hole	is	wanted	on	28	and	30-inch	1
saws.								١,

Diam.,		Arbor Hole, In.	Rev.per Minute			
16	14	11/8	2,500	36	61/4	\$ 5.65
18	13	11/4	2,250	34	73/4	6.90
20	13	15/16	1,950	34	12	8.40
22	12	1%6	1,750	34	15	9.90
24	11	13/8	1,600	34	17	11.90
<b>★</b> 26	11	13/8	1,500	32	20	13.90
<b>★28</b>	10	13/8 or 11/2			27	16.40
<b>★</b> 30		13% or 11/2	1,300		29	18.90
<b>★32</b>	10	15/8	1,225		34	21.90
★34	9	15/8	1,125	34	41	24.90
<b>*</b> 36	9	15/8	1,075	34	43	27.90

#### \$590 AND Circular Saw Mandrels. AND UP State Size.

90 31/2

Pulley on right hand side.

Pulley in center.

Boxes and pillows soft gray iron, babbitted bearings. Shaft is cold rolled steel and arbors have left hand threads. Furnished complete with bolts for

Size No.	Size of Pulley Inches Diam.Fac	Flange,	Length of Shaft, In.	of	Size Hole in Saw, In.	Saws	Shpg Wt.	Pulley on	Pulley in Center
0	2 x 3	2	161/2	7/8	3/4	6	14	\$5.85	
1	21/2x 3	1/2 21/2	161/2	11/16	1	10	22	6.35	
2	3 x 4	3	19	13/16	11/8	14	27	7.80	7.85
3	31/2x 4	1/2 31/2	211/2	1%16	11/4	18	38	8.95	9.00
4	4 x 5	4	24	17/16	15/16	20	45	10.20	10.25
4 5	41/2x 5	1/2 41/2	26	17/16	15/16	22	53	11.40	11.45
6	5 x 6	5	28	17/16	13/8	24	50	12.55	12.60
7	51/2x 6	1/2 51/2	301/2	17/16	13/8	26	60	13.65	13.70
8*	6 x 7	1/2 6	321/2	1%16	11/2	30	74	16.75	16.80
9*	7 x 8	6	37	111/16	15/8	32	90	22.00	22.10
10★	8 x 8	6	41	113/16		36	110	25.00	25.15
11*	9 x10		48	23/16	2		150	34.00	34.20
					ailable				

#### All merchandise on this page, except Fulton Circular Mill Saws, which are shipped direct from factory near Chicago, is shipped only from our CHICAGO or PHILADELPHIA stores. Improved Circular Enn 85c

Saw Side Filer.

#### Crosscut and Circular Saw Sets.

A standard tool that will give good service.

9M5102—Size No. 3.

For single tooth saws from 20 to 14 gauge.

Weight, 2 pounds.

Price 90c No. 3

Weight, 2 polinus.

Price — ...90c

9M5 103—Size No. 4.

For Champion Saws from 20 to 14 gauge. Weight, 1½

pounds. Price ...95c



Stearns Saw Set. For timber and board saws from 6 to 14 gauge. Length, 15 inches. Weight, 3 pounds. 9M5108 Price, each.\$1.85

#### Fulton Power Grindstone.



Drive Pulley—12x2½-inch face, Geared 5 to 1. Speed, 20 R. P. M. Stone—High quality; free cutting. Size, 22x4 inches. Weight, 123 pounds.

Veight, 123 pounds.

Bearings—Fitted with pressed steel oil cups.

Water Pan—Fitted to under side of stone.

Frame—Heavy 2½-inch angle steel, strong and rigid.

Shipping weight, 250 pounds.

99M293<sup>1</sup>/<sub>3</sub>-\*Price \$14.50 Shipped direct from factory near CHICAGO. \* Not Mailable.



Fulton Inserted Tooth Mill Saws.

We will make any size saw with more teeth, if desired, at an additional price of 40 cents for each extra tooth. Revolutions per minute, 500. Feed, 4 inches. Shipped direct from factory near CHICAGO, 99M8304½—State diameter.

Diameter,		No. Teeth		
Inches	Gauge	in Saw	Shipping Wt.	Price, Each
<b>★</b> 40	8	28	90 lbs.	\$ 70.00
<b>★</b> 42	7	30	110 lbs.	76.00
*44	7	30	130 lbs.	83.00
<b>★</b> 46	7	30	140 lbs.	91.00
<b>★</b> 48	7	30	150 lbs.	100.00
★50	6	32	170 lbs.	110.00
<b>★</b> 52	6	34	185 lbs.	121.00
★54	6	34	200 lbs.	132.00
★56	6	36	215 lbs.	145.00
<b>★</b> 58	6	38	230 lbs.	159.00
<b>★</b> 60	6	40	240 lbs.	174.00

Extra Points and Holders for Fulton Inserted Tooth Saws.
Shipped direct from factory only.

99M8306\/\3 | Fulton
Prop Forged Extra
Points only. State
gauge. Shpg. wt., per
100, 2\(\frac{2}{4}\) lbs.
Per 100 ...\$3.80
Each ...04

Extra Points and Holders for Fulton Inserted Tooth Saws.

99M8307\/\3 - Fulton
Prop Forged Extra Holders for points. State
gauge wanted. Shipping
wt., per 100, 9 lbs.
Per 100 ...\$3.80
Each ...04



99M83081/3-Fulton Inserted Tooth Wrenches. Shipping wt., 2 pounds. Price, each .... 60c

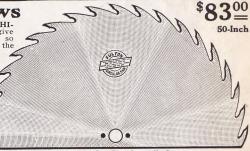
Fulton Circular Mill Saws Made to crder only and shipped from factory near CHI-CAGO, usually within ten days. In ordering be sure to give us all specifications of saw desired as mentioned below, so we can make the saw to suit your requirements and avoid the delay which would be necessary if we have to write you for additional information. All saws 40 inches and larger should have 2-inch mandrel holes, with two 54s-inch pin holes, spaced 3 inches center to center.

IN ORDERING BE SURE TO GIVE ALL SPECIFICATIONS AS FOLLOWS: Number of teeth wanted in saw, gauge at rim, gauge at center, whether spring or swage set, temper, speed, feed, whether to cut hard or soft wood, right or left hand, size of mandrel holes, size and distance center to center of pin hrdes.

Mixter's Champion Saw Gummer.







Fulton Solid Tooth Mill Saws.

Guaranteed to give satisfactory service. Revolutions per minute, 500 to 900. Feed, 4 to 6½ inches. Shipped direct from factory near CHICAGO.

99M83021/3-State diameter.

Diameter,		No. Teeth		The second second
Inches	Gauge	in Saw	Shipping Wt.	Price, Each
<b>★</b> 40	9	36 to 64	90 lbs.	\$ 43.00
<b>*</b> 42	9	36 to 64	100 lbs.	49.00
<b>*</b> 44	9	36 to 64	115 lbs.	56.00
<b>*</b> 46	9	30 to 56	125 lbs.	64.00
<b>*</b> 48	9	30 to 56	135 lbs.	73.00
★50	8	32 to 60	150 lbs.	83.00
<b>★</b> 52	8	34 to 64	160 lbs.	94.00
★54	8	34 to 68	175 lbs.	106.00
<b>★</b> 56	8	36 to 70	190 lbs.	119.00
★58	8	38 to 72	200 lbs.	133.00
<b>★</b> 60	7	40 to 76	225 lbs.	148.00
		*Not Mai	lable.	

\$315 No. 2

Spreads and shapes point of tooth, squares up cutting edge and gives body to swaged points, making saw cut easily, clear well and run steadily in the cut. Full directions sent with each swage.

9M5 | 13-State | Size wanted.

For Saws | Weight | 1/4 lbs.

5 to 10 gauge | 1/4 lbs.

5 to 10 gauge | 1/4 lbs.

4 12 gauge | 1/4 lbs.

4 12 gauge | 1/4 lbs.

# A Big Machine for the Big Shop

#### **SPECIFICATIONS**

Frame. Heavy 2-inch angle steel, electrically welded together. Heavy 2x10-inch base timbers 8 feet long, set 2 feet apart.

Circular Saw Table. Has double working surface, Heavy angle steel frame with channel steel slats welded to frame. Top surface ground level and true. Width 44 inches, overhangs base on right side 10 inches, overhangs base on left side 8 inches.

Raising and Lowering Circular Saw Mandre!. Has positive and accurate adjustment for quickly and easily regulating depth of cut. Diameter of mandrel, 1½ inches, threaded left end 4½ inches, r.ght end 5½ inches. Flarges 3½ inches in diameter. Takes saws, etc., with 1-inch hole. Size of pulley, 3x4-inch face. Has friction clutch to start and stop.

Jointer. 12 inches wide with round safety head and four knives, cutting circle 4½ inches in diameter. Head is fastened to mandrel with both key in shaft and set screw between bearings. Plates made of steel. Front plate 2½ feet long, rear plate 2½ feet long. Both plates have handwheel screws for raising or lovering or inclines to adjust depth of cut.

Tilting Guide. For jointer tilts to arothe of 45 degrees and is edirately as to

or inclines to adjust depth of cut.

Tilting Guide. For jointer tilts to angle of 45 degrees and is adjustable up to 17 inches in width. Furnished with spring to hold down material.

Band Saw. 22-inch swing, cuts to center of 44-inch circle. Table measures 14½x 17½ inches, stands 40 inches from floor and can be tilted for sawing hevels. Has two saw guides. Upper guide has ball bearing disc and can be raised to saw materials up to 7 inches thick. Band saw wheels are covered with endless rubber bands and take saws 12 feet long. Has belt shifter to start and stop.

Swing Cut.Off Saw. Has welded channel steel top. 12-inch saw furnished will cut 1-inch stuff 15 inches wide or 3-inch stuff 12 inches wide. Has an adjustable stop so as not to swing back further than necessary to take in width desired to

work. Saw drops below table surface when not in use. Saw mandrel 1½-inch in diameter, 3½-inch fianges, take saws with 1-inch hole. By throwing out the lever which engages the bevel frictions, the swing saw stops.

\*\*Reversible Spindle Shaper\*\*. Table is 12 inches wide by 2 feet 2 inches long and raises and lowers by handwheel to limit of 3 inches to adjust cut. Spindle is 1 inch in diameter, takes cutters with ½-inch hole. Threaded end is 3¾ inches long. Flange is 2¾ inches in diameter, Collar for reversible knives is 1¾ inches in diameter by ¾-inch face. Shaper is operated by lever which presses the spindle against double friction discs. A pair of slotted collars and two straight edge knives are furnished.

knives are furnished. Mortiser and Borer. Bed plate tilts to angle of 45 degrees and is adjustable to and from stand and will take up to 3 inches to center of bit. Chuck takes hollow chisel bits from ¼ to ¾-inch and boring bits with ½-inch shank from ¼ to 2-inch. Foot treadle forces chisels and bits into the work. Furnished with one ¾-inch boring bit. Has belt shifter to start and stop. Tenoner. Furnished with two 9-inc i grooving saws and sliding carriage. Saws cut up to 2½ inches deep, and up to 1¾ inches wide. Cuts tenons up to 12 inches wide and by removing edge clamp up to 14 inches wide and up to 3 inches deep. Thickness of tenon is regulated by collars placed between the saws. Carriage has vertical stop for making tenons of exact lengths.

Sand Disc. 18 inches in diameter, has metal band to hold on sandpaper and is covered with sandpaper.

Rip Guide. Is adjustable for any width up to 22 inches wide and has wood spring for holding down material.

Crosscut Gui 2. Slides in milled groove. Has angle adjustment of 45 degrees

Crosscut Guide. Slides in milled groove. Has angle adjustment of 45 degrees and adjustable stop for cutting to length.

Countershaft. 1% inches in diameter with 10x4-inch tight and loose pulleys.

