

Multnomah



GASOLINE DRAG SAWS
STEAM DRAG SAWS
POLE SAWS
CONCRETE MIXERS
FERTILIZER SOWERS
WEEDERS



MULTNOMAH IRON WORKS
PORTLAND, OREGON-U-S-A

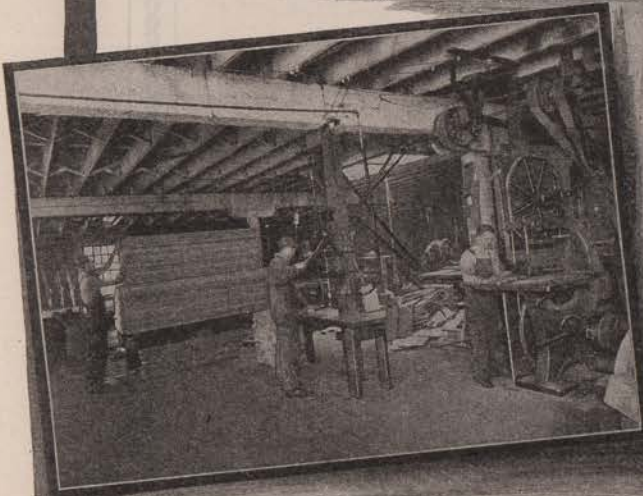
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**Exterior and Interior Views of
MULTNOMAH IRON WORKS, Portland, Oregon**

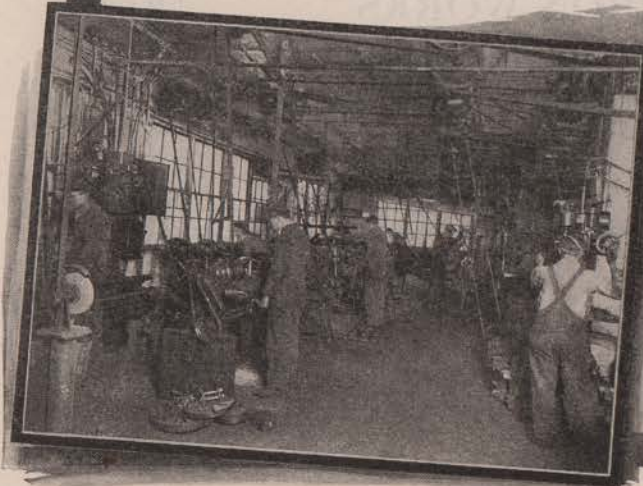
Top: The Multnomah plant, located at 30th and Nicolai streets

Above, left: The woodworking department

Above, right: Assembling department, concrete mixers

Below, left: A section of the machine shop

Below, right: Assembling department, drag saws



IMPORTANT

IT is our intention, always, to give you, our customer, the very best of service possible, and we make every effort to ship your order the day it is received. If we are unable to fill your order immediately, you will be notified to that effect.

When ordering repairs, it is very necessary that you give the part number as well as the model and serial number of the machine the parts are required for.

If there is a shortage in the shipment, or if contents are not as you specified, report the discrepancy at once, as all claims for shortage must be made within five days from receipt of goods.

The utmost care is used by us in packing and shipping all orders and we are not responsible for loss or damage to materials while in transit. Our liability ceases when shipments are received for by the transportation companies. At the same time, if such cases are reported to us, we will gladly co-operate with you in having any claim adjusted.

We have endeavored to give the net and shipping weights of all machines catalogued. However it must be understood that due to many varying conditions, all information of this kind must be taken as approximate only; we cannot accept any responsibility for mistakes or errors arising from a too literal acceptance of weights given.

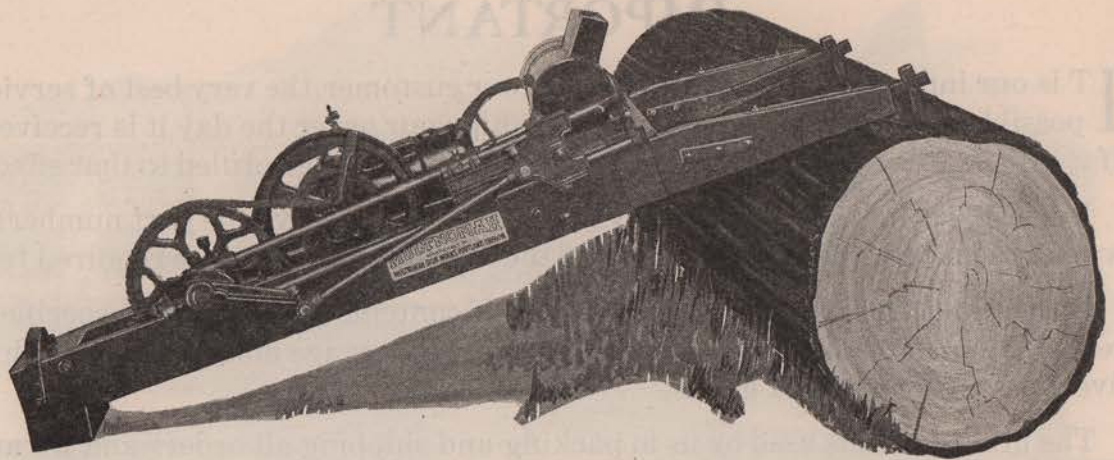
Merchandise returned to us must have all charges prepaid and a minimum charge of 10% will be made on all material returned for reasons not due to our error. No parts will be accepted for credit ninety days after original shipment.

If you do not have an established line of credit with us and are not rated in Bradstreet's or Dun's, it will expedite matters and favor us if you will send references covering your responsibility.

We believe that Good Will is one of the greatest assets a firm can have, and in order to have that Good Will it is very necessary that you, our customer, be entirely satisfied. With that aim in view, we are continually striving to improve our products and our service, and to hold our prices to the point whereby you are able to meet fair competition and make a legitimate profit. We do not make any exaggerated claims for our products,—that is not necessary. But we do maintain that any article manufactured by this company consists of the best materials and workmanship that can possibly be obtained.

We reserve the right, without liability, to substitute the latest improved machines on orders for machines as shown in this catalogue.

For Index to Contents, and Prices, see page 29



STANDARD BATTERY IGNITION MODEL Y

MULTNOMAH GASOLINE DRAG SAW

THE Multnomah is one of the pioneers of the Drag Saw field and the present model is the result of the accumulated experience of a number of years. We have, at all times, been on the alert to improve our product and to constantly add to the strength and efficiency of our Drag Saw. One of the main improvements of the new models is the saw holder. The saw blade can be removed or installed by the loosening of one nut—a matter of seconds. The saw blade is held in position by two hardened steel pins. A slot in the blade slips under a nut and a few turns clamps the saw in cutting position—a truly great time saver.

Under all conditions of service Multnomah-built drag saws have proven their superiority in every way.

SPECIFICATIONS

MODEL Y AND MODEL YK

Engine: 4 H. P., 2 cycle, water cooled, 3 $\frac{3}{4}$ " bore x 4" stroke.

Frame: Kiln dried, clear fir, well mortised and braced; three point suspension.

Saw Driving Mechanism: All working parts of steel or tough malleable iron, designed to withstand heavy overload. Sprocket and Crankarm are keyed to the shaft with large $\frac{3}{8}$ " keys.

Clutch: Cone type, faced with brake lining—under spring tension at all times. Automatically stops engine if saw blade binds, preventing breakage.

Lubrication: Double protection; engine parts oiled through gasoline as well as through a regular gas engine sight feed oiler. All other moving parts are amply provided with oil and grease cups.

Ignition: Model Y—Batteries and Box Type Coil. Model YK—Wico Oscillating Type Magneto.

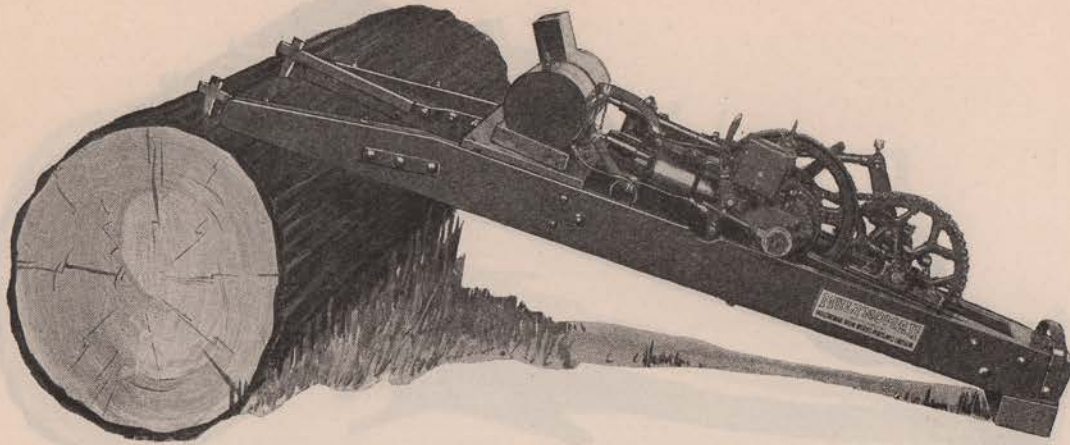
Saw Blade: Five-foot, standard manufacture, guaranteed blade.

	Model Y	Model YK
Net Weight	275	280
Shipping Weight	360	365
Freight Classification:	First.	

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MULTNOMAH IRON WORKS

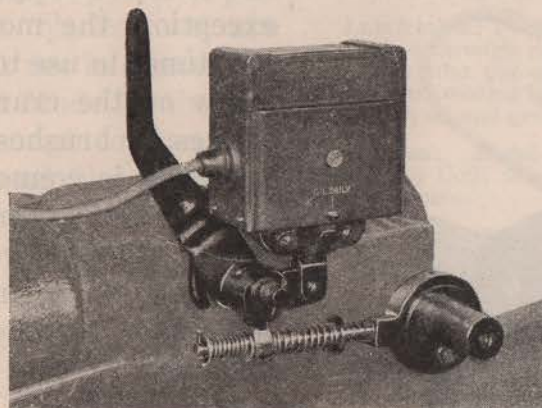
PORTLAND, OREGON

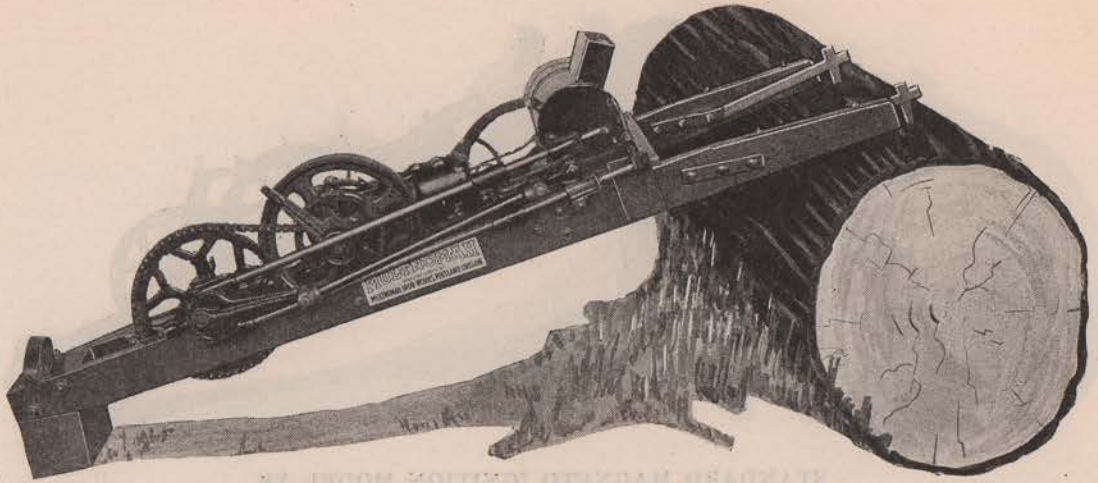


STANDARD MAGNETO IGNITION MODEL YK

MAGNETO IGNITION

THE majority of the Drag Saws that we manufacture today are Magneto equipped and we strongly recommend the use of this type. Batteries, timer, coil and wiring system are eliminated and that means the removal of one of the greatest and most annoying of all motor troubles. A study of the cut below, showing the magneto installation, will explain the main reason for the success of magneto drag saw ignition. Note that the magneto is rigidly attached to the motor and becomes an integral part of that unit; consequently regardless of any spring, straining or warping of the wood frame, cannot get out of line or adjustment. The fact that 90% of the stationary gas engines are magneto equipped is the main argument in favor of that method of ignition.





LIGHTWEIGHT BATTERY IGNITION MODEL MN

MULTNOMAH LIGHTWEIGHT DRAG SAW

THE Lightweight Model is an exact duplicate of the Standard machine with the exception of the frame and engine parts. The frame is considerably lighter as there is less weight to support and the engine, being 3 H. P. instead of 4 H. P., is made up of lighter parts throughout. All the remaining parts are similar in both types.

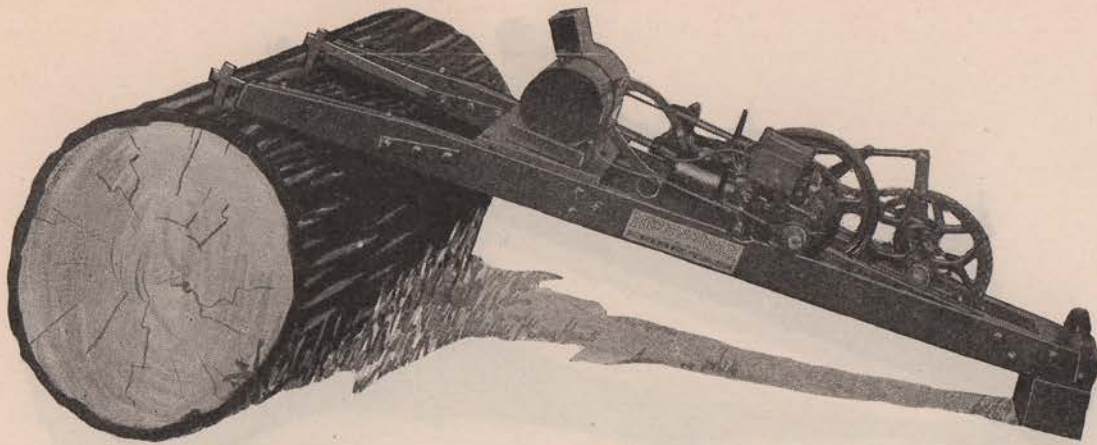


THE brush type timer as used on all of our battery type saws is, without exception, the most satisfactory drag saw timer in use today. A brass contact screw on the crankshaft revolves and strikes, or brushes, a spring steel plate to which is connected a wire leading directly to the spark coil—exceptionally simple but positive in action and self-cleaning—no springs, triggers or dogs to break or become shorted with grease and dirt.

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PORTLAND, OREGON



LIGHTWEIGHT MAGNETO IGNITION MODEL MK

MAGNETO IGNITION

THERE are many places where a lightweight saw is a decided advantage over the heavier standard model. In small timber where a five or six-foot blade will answer, this model Drag Saw is fully as efficient as the heavier machine and much more easily handled. During a hard day's cutting the woodsman will appreciate the seventy to eighty pounds difference in weight.

Although there is ample power to pull eight and nine-foot blades, we are strongly against their use in connection with the Lightweight Model as the machine is not heavy enough to stand the strain. We recommend the Standard Model as being much more satisfactory for this heavier class of work.

Simplicity, ruggedness, dependability day in and day out—that's what you get in Multnomah-built machines.

SPECIFICATIONS

MODEL MN AND MODEL MK

Engine: 3 H. P.; 2 cycle; water cooled; 3¼" bore x 4" stroke.

Frame: Kiln dried clear fir, well mortised and braced; three point suspension.

Saw Driving Mechanism: All working parts of steel or tough malleable iron, designed to withstand heavy overload; sprocket and crankarm are keyed to shaft with large ¾" keys.

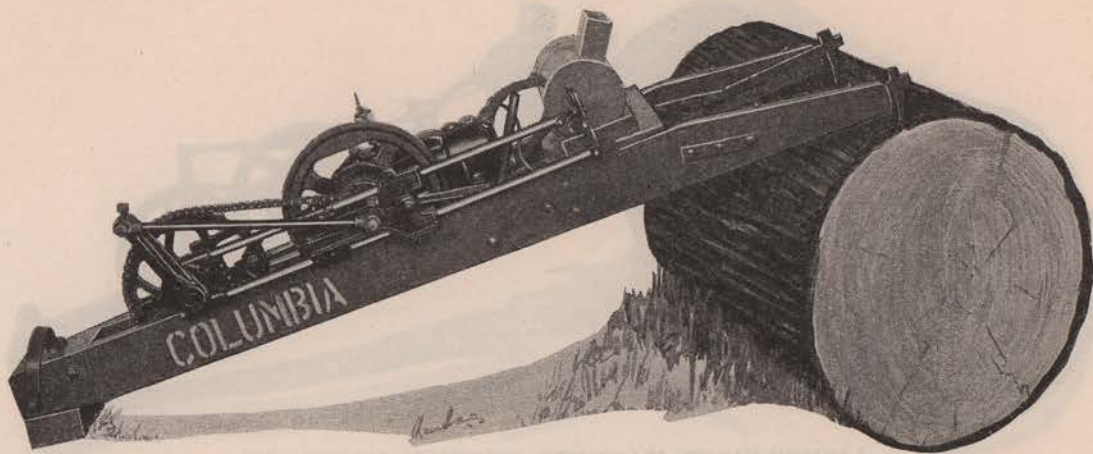
Clutch: Cone type faced with brake lining—under spring tension at all times. Automatically stops engine if saw blade binds, preventing any breakage.

Lubrication: Double protection; engine parts oiled through gasoline as well as through a regular gas engine sight feed oiler. All other moving parts are amply provided with oil and grease cups.

Ignition: Model MN—Batteries and Box Type Coil; Model MK—Wico Oscillating Magneto.

Saw Blade: Five-foot standard manufacture guaranteed blade.

	Model MN	Model MK
Net Weight	210 lbs.	215 lbs.
Shipping Weight . . .	285 lbs.	290 lbs.
Freight Classification:	First.	



COLUMBIA STANDARD BATTERY MODEL H

COLUMBIA DISC CLUTCH DRAG SAW

WITH the exception of the clutch and the clutch parts, the Columbia Disc Clutch Drag Saw and the Multnomah Cone Clutch Drag Saw are absolutely the same; in fact the various other parts are interchangeable. Some operators prefer a disc clutch, others a cone—one type is fully as efficient as the other, the preference being purely a matter of personal opinion or experience.

Whether Cone or Disc, a clutch is a very important feature of the modern Drag Saw. When the engine is cold, the clutch permits of a much freer movement of the engine when starting. The crankshaft of the saw projects out far enough to be fitted with a small power pulley and the engine can be used for a great many purposes other than cutting wood. In this case a clutch is invaluable.

SPECIFICATIONS

MODEL H AND MODEL HK

Engine: 4 H. P.; 2 cycle; water cooled; 3 $\frac{3}{4}$ " bore x 4" stroke.

Frame: Kiln dried clear fir, well mortised and braced; three point suspension.

Saw Driving Mechanism: All working parts of steel or tough malleable iron, designed to withstand heavy overload; sprocket and crankarm are keyed to shaft with large $\frac{3}{8}$ " keys.

Clutch: Multiple disc type, four hardened steel discs—under spring tension and automatically stops engine if saw blade binds, preventing breakage.

Lubrication: Double protection; engine parts oiled through gasoline as well as through a regular gas engine sight feed oiler. All moving parts amply provided with oil and grease cups.

Ignition: Model H—Batteries and Box Type Coil; Model HK—Wico Oscillating Magneto.

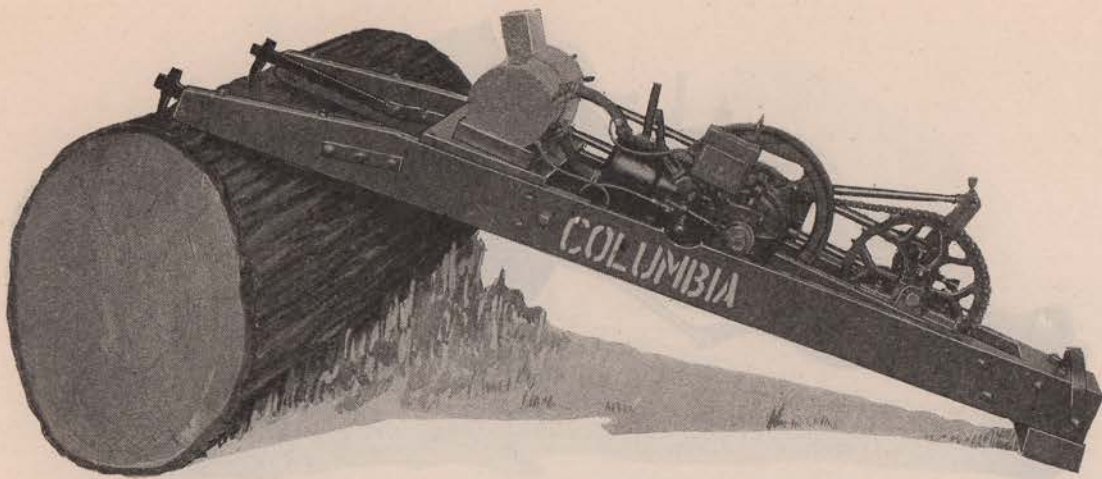
Saw Blade: Five-foot standard manufacture guaranteed blade.

	Model H	Model HK
Net Weight	275 lbs.	280 lbs.
Shipping Weight	360 lbs.	365 lbs.
Freight Classification:	First.	

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MULTNOMAH IRON WORKS

PORTLAND, OREGON



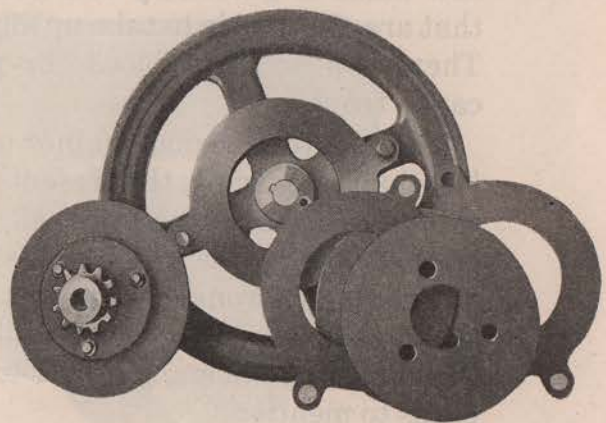
COLUMBIA STANDARD MAGNETO MODEL HK

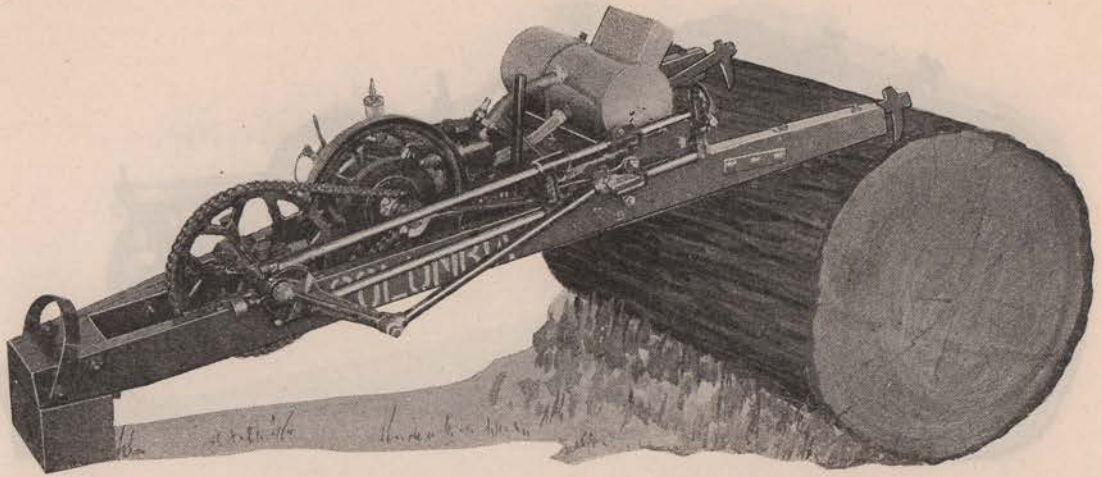
COLUMBIA MAGNETO IGNITION

THE Multnomah Iron Works is constantly on the alert to improve their product and has spared no expense to provide equipment for the better manufacture of their Drag Saws. The outstanding feature of the present models is the fact that the cylinders are honed and the pistons and pins are precision ground—a combination that makes the cylinder compression as near perfect as is humanly possible, a vital point with a two-cycle engine.

The double system of lubrication adds to the life of all internal working parts. Lubricating oil added to the gasoline enters the cylinder in the form of a fine vapor and forms a protective film of oil on all surfaces. The connecting rod is made in the shape of a trough which receives the oil dropping from the sight feed oiler, conveying it to the crankshaft and also through the piston pin to the cylinder walls—a positive form of lubrication, which in connection with the vapor from the oil-gas mixture creates one hundred per cent protection. The main crankshaft bearings as well as the countershaft boxes are oiled by means of large grease cups.

The Columbia disc clutch consists of four steel discs, alternately placed, two pinned to the flywheel and two to the chain drive sprocket. It requires little or no attention, the adjustment being very simple—all wear is taken up by means of a locknut on the end of the crankshaft.





COLUMBIA LIGHTWEIGHT BATTERY MODEL MP

COLUMBIA LIGHTWEIGHT DRAG SAW

AS with the standard machines, the only difference between the Columbia Lightweight and the Multnomah Lightweight is in the clutch and parts, the former being multiple disc and the latter of the cone type.

One of the many improvements with which all the present models are equipped is the new saw guide, or end brace. The saw blade is guided by two brass pins that are adjustable to take up any wear. There are no wood blocks or pegs to cause trouble.

There have been many minor mechanical changes made on the present models, changes that are small, but all for the betterment of the machine—sprocket heavier and stronger, keyways larger, crosshead driven at the center, slide rods of equal size, and many others too numerous to mention.

High grade materials, skillful workmanship and superior design are embodied in our drag saws and other products.

SPECIFICATIONS

MODEL MP AND MODEL PK

Engine: 3½ H. P.; 2-cycle; water cooled; 3¼" bore x 4" stroke.

Frame: Kiln dried clear fir, well mortised and braced; three point suspension.

Saw Driving Mechanism: All working parts of steel or tough malleable iron, designed to withstand heavy overload; sprocket and crankarm are keyed to shaft with large ⅝" keys.

Clutch: Multiple Disc Type, four hardened steel discs—under spring tension and automatically stops engine if saw blade binds, preventing breakages.

Lubrication: Double protection; engine parts oiled through gasoline as well as through a regular gas engine sight feed oiler. All other moving parts amply provided with oil and grease cups.

Ignition: Model MP—Batteries and Box Type Coil; Model PK—Wico Oscillating Magneto.

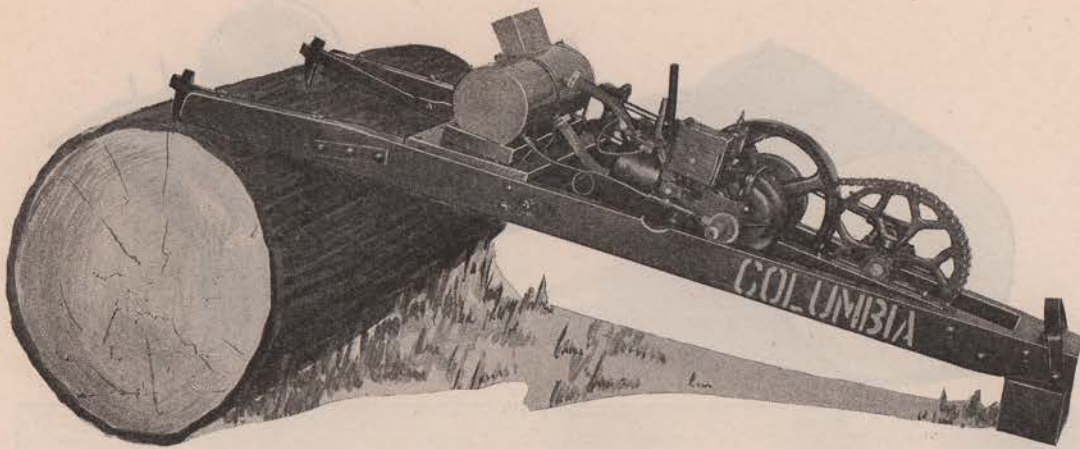
Saw Blade: Five-foot standard manufacture guaranteed blade.

	Model MP	Model PK
Net Weight	210 lbs.	215 lbs.
Shipping Weight	285 lbs.	290 lbs.
Freight Classification:	First.	

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MULTNOMAH IRON WORKS

PORTLAND, OREGON



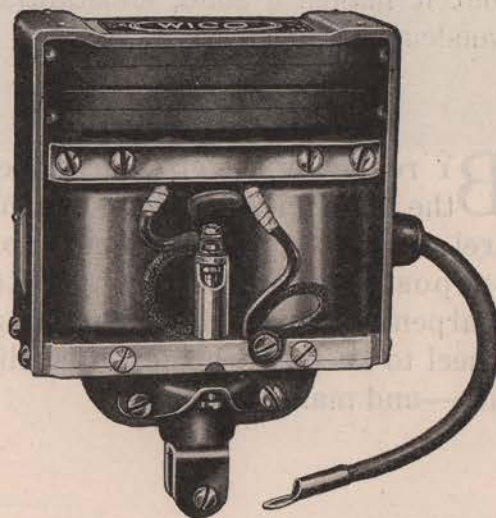
COLUMBIA LIGHTWEIGHT MAGNETO MODEL PK

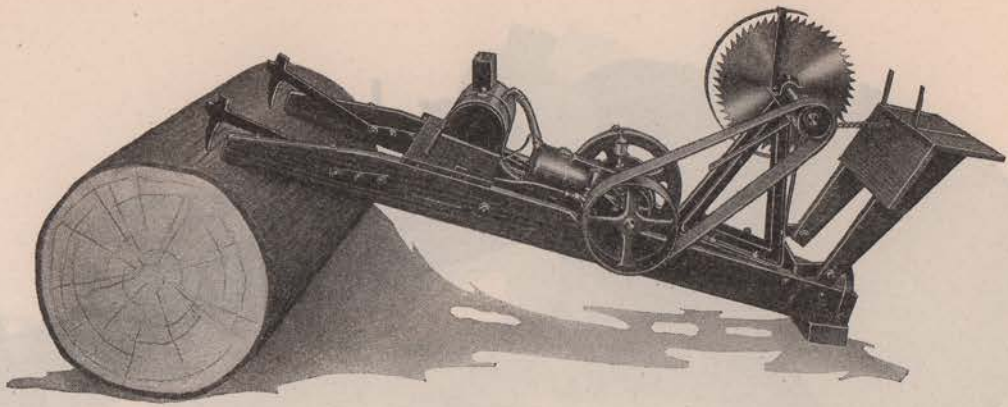
MAGNETO IGNITION

THE Wico Magneto is by far the most satisfactory and efficient method of gas engine ignition that has yet been produced. The spark is developed by the alternate compression and release of powerful coil springs. As the motion of the driving mechanism is in and out, or oscillating, and not revolving, or rotary, the speed of the motion has nothing whatever to do with the intensity of the spark. This means that fully as hot a spark is developed when turning the motor by hand as when the engine is being operated at the highest possible speed. In other words, a magneto equipped Drag Saw can be started equally as easily as a battery equipped Saw. Every magneto is tested, operated and set on the particular Drag Saw of which it forms a part—no further adjustments are necessary.

A GUARANTEED DRAG SAW

EVERY Drag Saw is given a severe test under actual cutting conditions before being released for shipment. Consequently the machine is ready to operate when received by the customer. The Multnomah Line of Drag Saws are fully guaranteed against defective materials and workmanship and are backed by a factory with fifteen years of continuous service in the Drag Saw field.





MULTNOMAH CIRCULAR SAW ATTACHMENT

A LABOR AND TIME SAVER

THE Multnomah Circular Saw attachment is a practical and economical outfit for the sawing of small trees, limbs, saplings, poles, etc., that will double the value of your drag saw. It can be attached to the drag saw in five minutes, is easily and speedily operated and is so strongly built and well braced that it makes a solid, substantial woodcutting machine.

OTHER USES

BY removing the circular blade, the attachment provides a mandrel suitable for a varied number of purposes—an emery wheel to sharpen axes and tools—a gumming wheel to keep saw blades in condition—and many other uses.

EQUIPMENT

THE complete attachment consists of a steel frame to which is fastened a tilting wood table—a 12" driving pulley and a 4" driven pulley—a 20" circular saw blade of well known make—and the necessary length of 4" belting.

The attachment will fit any model Multnomah Drag Saw.

Net weight 95 lbs.

Shipping weight 100 lbs.

Multnomah products are designed and built according to the most modern standards of shop practice. They are a "good investment."

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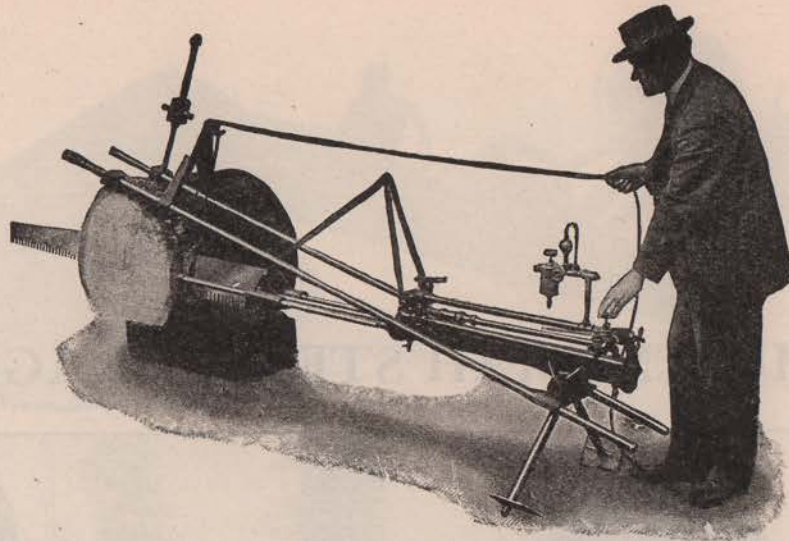
MULTNOMAH IRON WORKS

PORTLAND, OREGON

MULTNOMAH STEAM DRAG SAW



A TYPICAL LOG ROLLWAY INSTALLATION



3 1/4 x 30 PORTABLE TYPE

MULTNOMAH STEAM DRAG SAW

THERE is no woodcutting machine on the market that is as simple, efficient and economical as the Multnomah Steam Drag Saw. There are very few moving parts on the machine—no chains, gears or sprockets—the saw blade is coupled directly to the piston rod. The efficiency of the saw is limited only by the ability of the operator in handling the timber and the condition of the saw blade. There is more than ample power to meet any possible conditions. The steam consumption is very low and the upkeep on the machine is practically nil, making the Multnomah Steam Drag Saw by far the most economical outfit to operate.

The 3 1/4 x 30 saw shown in the cut above is adapted to an unusually wide range of work. It can be used successfully in almost any place where steam is available.

SPECIFICATIONS

3 1/4 x 30 STEAM SAW

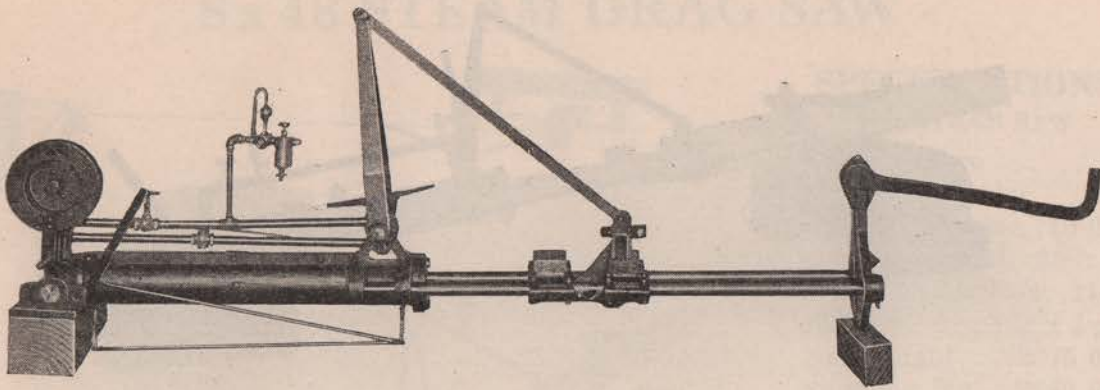
Cylinder Bore	3 1/4"
Length of Stroke	30"
Steam Pressure	90 to 100 lbs.
Boiler Required	8 h. p.
Steam Connection	3/4"
Blade	6' x 10" x 10 ga.
Net Weight	260 lbs.
Shipping Weight	330 lbs.

Multnomah is one of the pioneers in the drag saw field. Constant study of the conditions and requirements of this class of work has enabled us to build machines that are most economical and satisfactory.

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PORTLAND, OREGON



POND TYPE ILLUSTRATED

5x36 STEAM DRAG SAW

NOTE particularly the simplicity of the valve mechanism of the Multnomah Steam Saw. There are two rocker arms operating the valve. These arms are in turn operated by a connecting link coupled to the crosshead—absolutely positive in action and with no possible chance of getting out of adjustment.

All the vital parts of the Steam Saw are of cast steel, the remaining castings being of the best grade of grey iron obtainable.

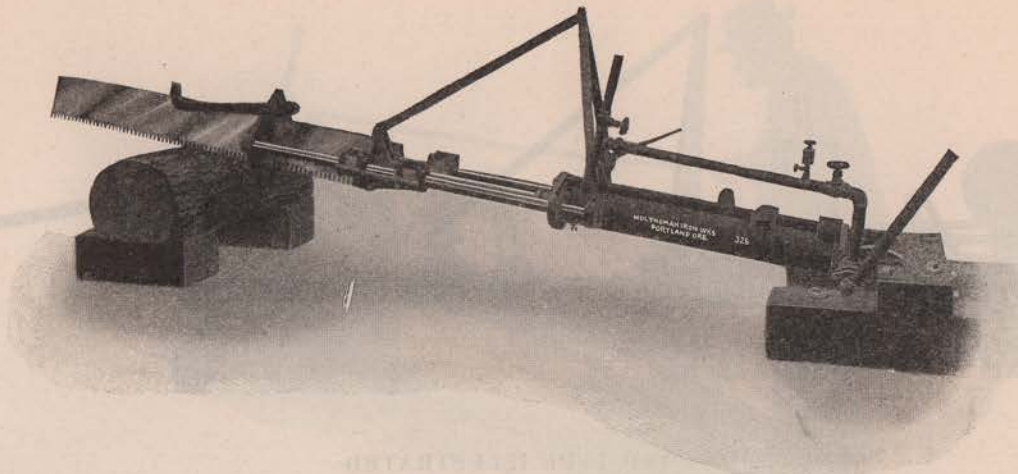
An important aid to the successful operation of the saw is the mild steel guide projecting beyond the end of the machine. This acts as a guide for the saw blade, preventing its whipping back and forth when being operated at full speed.

SPECIFICATIONS

5x36 STEAM SAW

Cylinder Bore	5"
Length of Stroke	36"
Steam Pressure	110 lbs.
Boiler Required	15 h. p.
Steam Connection	1"
Blade	8' x 10" x 7 ga.
Net Weight	1000 lbs.
Shipping Weight	1225 lbs.

We confine our manufacturing activities to a limited number of products. On these we have concentrated every effort, with the result that our machines are acknowledged leaders in their respective fields.



POND TYPE ILLUSTRATED

7x44 STEAM DRAG SAW

EACH of the large stationary Steam Saws shown here, the 5x36, 7x44 and 8x48, is made in two distinct and separate types. The Pond type, for use on the log pond when cutting in the water, and the Deck type for use on the log deck or rollway. The mechanical construction and operation of the two types are absolutely the same. The Pond Saw is equipped with a log dog, stop and lever device for holding the log firmly against the raft or float while cutting. The machine is swiveled at the base so that it will operate at any angle from perpendicular to horizontal and consequently handle logs of any diameter. The Deck type, as shown on the opposite page, is provided with a movable base that allows a side movement of the saw about three feet. The overhead sheaves and brackets as shown are all included in the equipment of the Deck type saw.

SPECIFICATIONS

7x44 STEAM SAW

Cylinder Bore	7"
Length of Stroke	44"
Steam Pressure	110 lbs.
Boiler Required	25 h. p.
Steam Connection	1½"
Blade	8' x 14" x 5 ga.
Net Weight	2300 lbs.
Shipping Weight	2575 lbs.

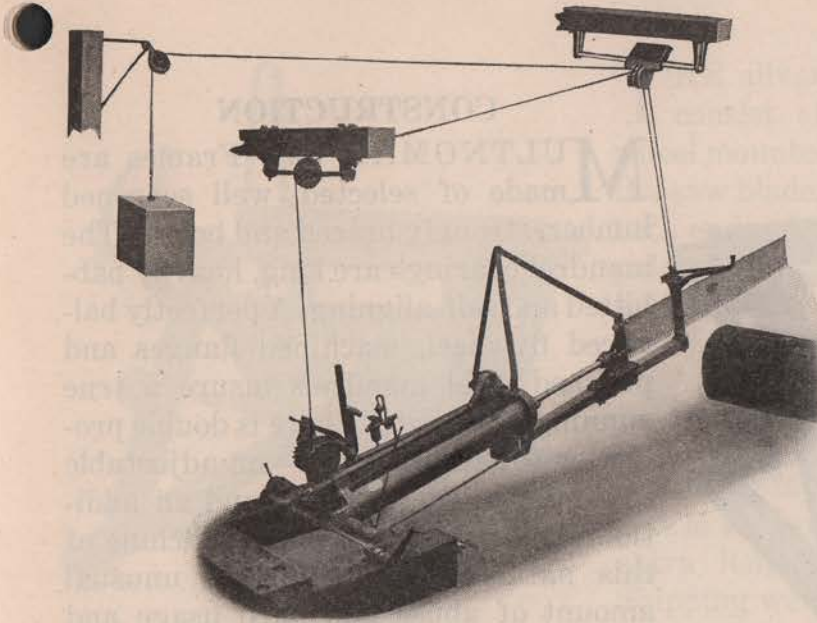
Long experience in the manufacture of steam and gas powered drag saws is responsible for the wide demand which Multnomah products enjoy. They are mechanically correct.

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MULTNOMAH IRON WORKS

PORTLAND, OREGON

8x48 STEAM DRAG SAW



SPECIFICATIONS

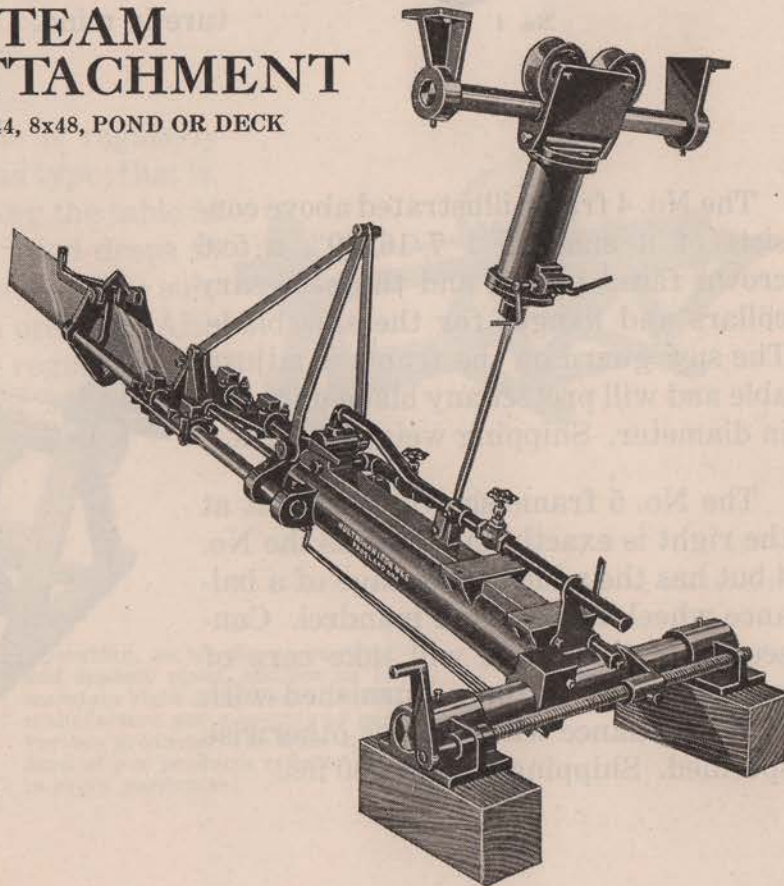
8x48 STEAM SAW

Cylinder Bore 8"
 Length of Stroke 48"
 Steam Pressure .110 lbs.
 Boiler Required . .35 h. p.
 Steam Connection .1½"
 Blade9' x 16" x 5 ga.
 Net Weight2375 lbs.
 Shipping Wgt. .2660 lbs.

Deck Type Illustrated

STEAM LIFT ATTACHMENT

FOR 5x36, 7x44, 8x48, POND OR DECK



FOR greater speed and ease in operation the Multnomah Steam Lift has been developed for use with the Steam Drag Saw. —A slight turn of the throttle valve raises or lowers the saw to the desired cutting height.

Cylinder Bore 5½"
 Length of Stroke 14"
 Total Lift at Guide
 Yoke 7'
 Steam Connection . . . ¼"
 Net Weight 200 lbs.
 Shipping Weight . 200 lbs.

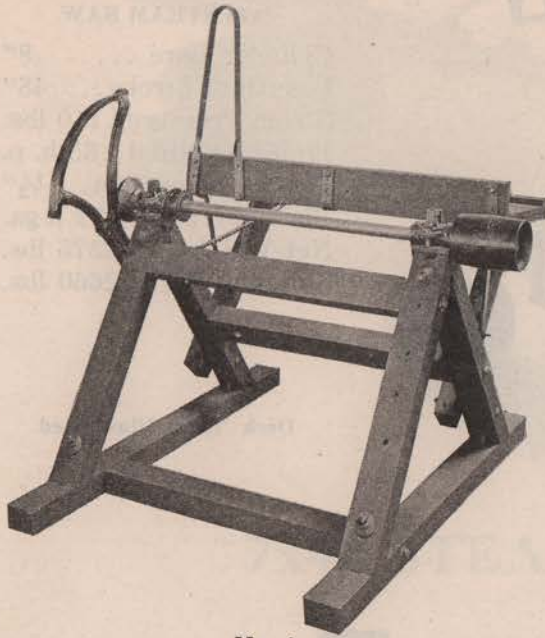
7x44 Deck Type Illustrated

MULTNOMAH IRON WORKS

PORTLAND, OREGON



MULTNOMAH SAW FRAMES



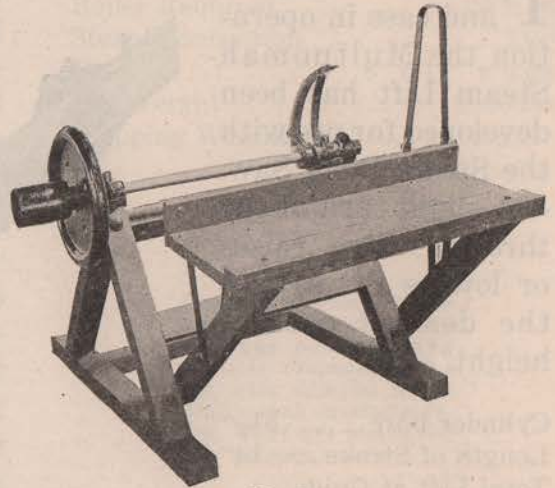
No. 4

CONSTRUCTION

MULTNOMAH Saw Frames are made of selected, well seasoned lumber, strongly braced and bolted. The mandrel bearings are long, heavily bab-bitted and self-aligning. A perfectly balanced flywheel, machined flanges and polished steel mandrels insure a true running saw blade. There is double protection for the operator—an adjustable saw guard on the frame and an additional guard on the table. A machine of this nature will receive an unusual amount of abuse and hard usage and the Multnomah is built with that feature in mind.

The No. 4 frame illustrated above consists of a mandrel 1 7/16x49", a 5x6 crown faced pulley, and the necessary collars and flanges for the saw blade. The saw guard on the frame is adjustable and will protect any blade up to 30" in diameter. Shipping weight 200 lbs.

The No. 5 frame shown in the cut at the right is exactly the same as the No. 4 but has the added advantage of a balance wheel keyed to the mandrel. Consequently this outfit will take care of much heavier cutting. Furnished with a 60-lb. balance wheel unless otherwise specified. Shipping weight 260 lbs.



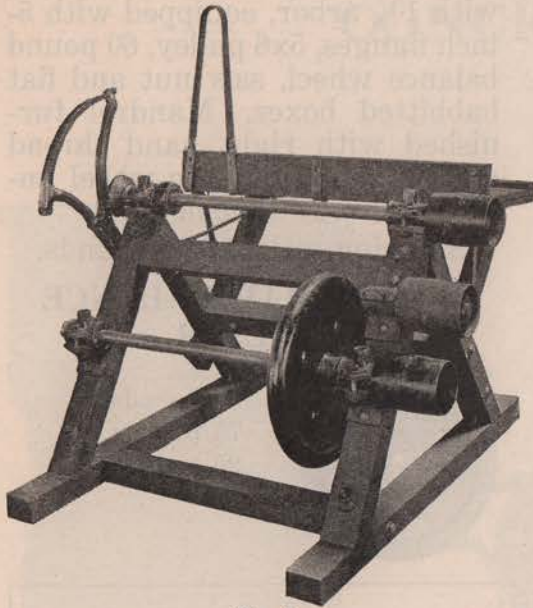
No. 5

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MULTNOMAH IRON WORKS

PORTLAND, OREGON

MULTNOMAH SAW FRAMES

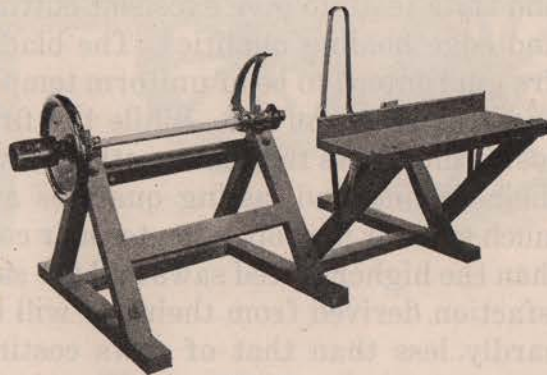


No. 6

THE advantages of the No. 6 outfit consist of an underslung balance wheel mounted on a separate shaft from the saw blade, leaving the table clear at both ends. A decided help when cutting poles, fence rails, timber, etc. Furnished with 60-lb. balance wheel unless otherwise specified. Shipping weight 345 lbs.

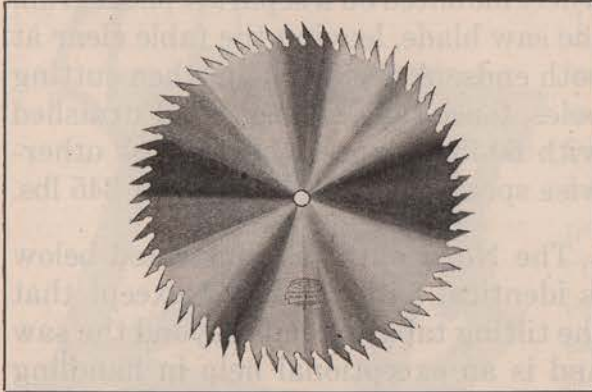
The No. 7 outfit as illustrated below is identical with the No. 5 except that the tilting table extends beyond the saw and is an exceptional help in handling extra long poles, rails, timbers, etc. Shipping weight 290 lbs.

The Multnomah Frame is regularly furnished in the right hand type; that is, when the operator is facing the table in position to saw, the cut wood drops to the right. A left hand outfit can be substituted if specified when ordered. Also the 60-lb. balance wheel is regular equipment, although a 75-lb. or 90-lb. wheel can be furnished on special order.



No. 7

Operating, as we do, a complete and modern plant, enables us to maintain rigid supervision in the manufacture and assembly of our various products. The high standard of our products reflects this in every particular.



MULTNOMAH Circular Saw Blades are made for us by one of the oldest and best known saw manufacturers in the country. They are made from the best material and have the proper shape and style teeth to give excellent cutting and edge holding qualities. The blades are guaranteed to be of uniform temper and free from defects. While the first cost is much less than many other saws, their cutting and lasting qualities are much greater in proportion to their cost than the higher priced saws and the satisfaction derived from their use will be hardly less than that of saws costing two or three times as much. They have been sold on the coast for some time under a different name having a large sale and giving universal satisfaction.

We carry a large stock at Portland of the following sizes:

20-inch, 13 gauge, 1 $\frac{3}{8}$ -inch hole.....	11 lbs.
24-inch, 11 gauge, 1 $\frac{3}{8}$ -inch hole.....	18 lbs.
26-inch, 11 gauge, 1 $\frac{3}{8}$ -inch hole.....	20 lbs.
28-inch, 10 gauge, 1 $\frac{3}{8}$ -inch hole.....	26 lbs.
30-inch, 10 gauge, 1 $\frac{3}{8}$ -inch hole.....	30 lbs.
32-inch, 10 gauge, 1 $\frac{3}{8}$ -inch hole.....	35 lbs.

MANDREL SETS

No. 8

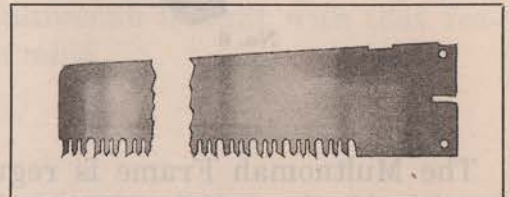
The No. 8 mandrel set is made from 1 $\frac{7}{16}$ inch cold rolled steel with 1 $\frac{3}{8}$ arbor, equipped with 5-inch flanges, 5x6 pulley, 60 pound balance wheel, saw nut and flat babbitted boxes. Mandrel furnished with right hand thread and 60 pound balance wheel unless otherwise specified.

Shipping weight 120 pounds.

MULTNOMAH BALANCE WHEELS



60 pounds.
75 pounds.
95 pounds.



MULTNOMAH DRAG SAW BLADES

MANY years' Drag Saw experience has taught us that the blade with the style teeth as shown in the above cut is the best all purpose blade for machine wood cutting. Multnomah blades are guaranteed by the manufacturer to be absolutely uniform in temper of the proper degree of hardness, insuring saws that will stand up to their work with the least cost for refitting. They can be furnished with single or double raker type tooth and in lengths of 3 $\frac{1}{2}$ to 10 feet.

Multnomah Drag Saw Blades, weight per foot, 3 lbs.

Note—These blades are drilled to fit the following Drag Saws: Multnomah, Ottawa, Wade and Vaughan.

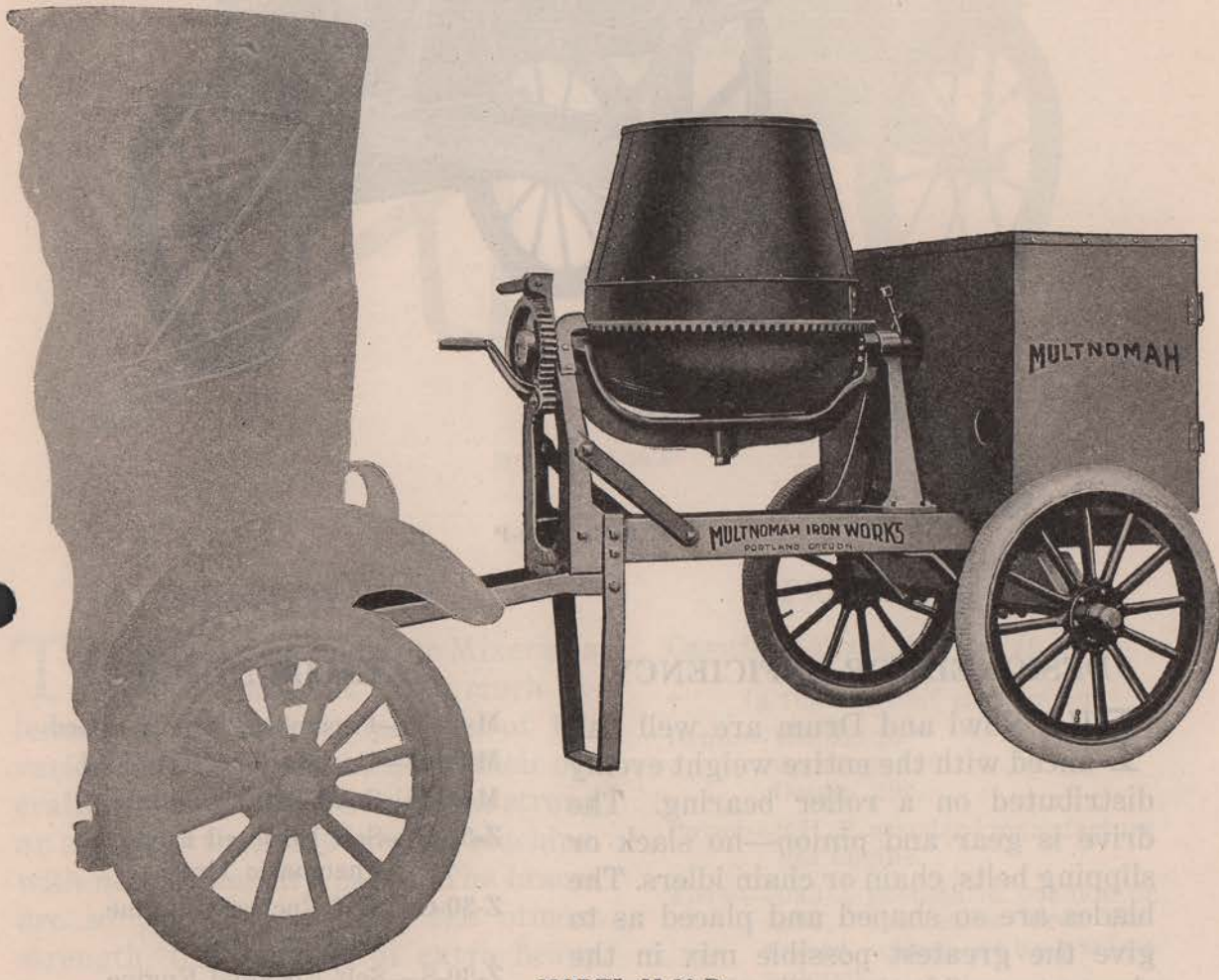
Multnomah

MULTNOMAH IRON WORKS

PORTLAND, OREGON

MULTNOMAH

CONCRETE MIXER



MODEL M-30-P

A BETTER BUILT MIXER

MULTNOMAH IRON WORKS PORTLAND, OREGON

Multnomah



MODEL Z-30-P

DESIGNED FOR EFFICIENCY

THE Bowl and Drum are well balanced with the entire weight evenly distributed on a roller bearing. The drive is gear and pinion—no slack or slipping belts, chain or chain idlers. The blades are so shaped and placed as to give the greatest possible mix in the shortest possible time. The discharging position of the bowl is the proper height to allow the use of a wheel barrow without blocking up the machine. And there are many other minor features all to aid in the efficiency and convenience of the operator.

CATALOG NUMBERS

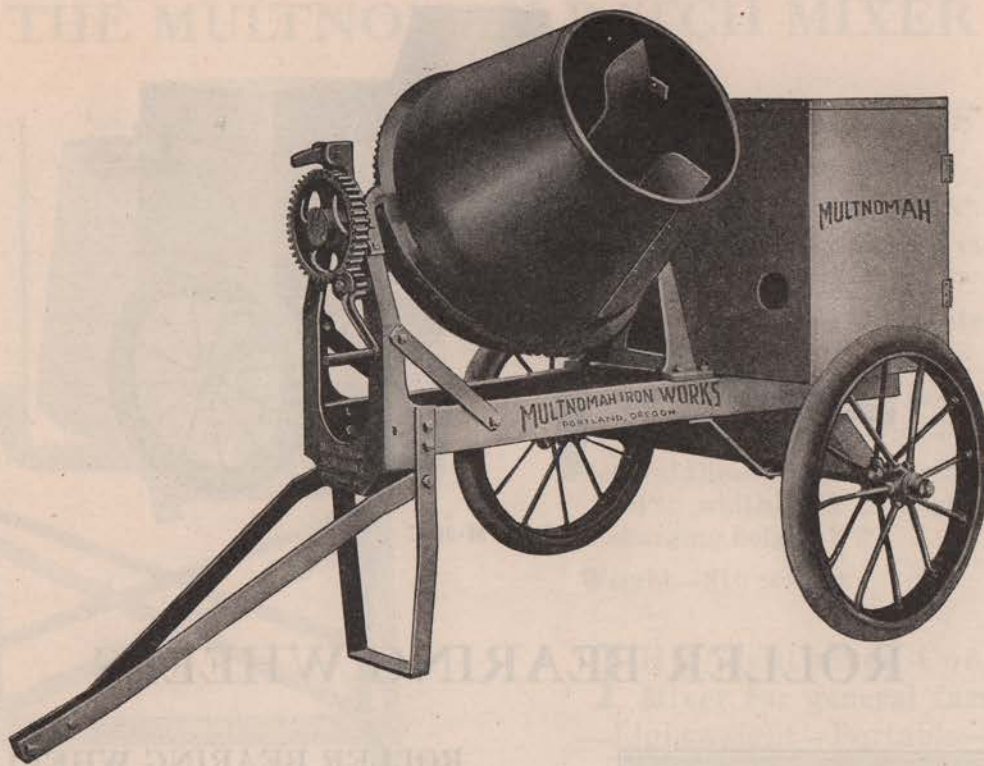
- M-30-P—Pneumatic Tire Equipped.
- M-30-C—Cushion Tire Equipped.
- M-30-S—Solid Tire Equipped.
- Z-30-P—Self Enclosed Engine.
Pneumatic Tires.
- Z-30-C—Self Enclosed Engine.
Cushion Tires.
- Z-30-S—Self Enclosed Engine.
Solid Tires.

Ruggedly built, mechanically correct in design, economical in operation—that's why Multnomah mixers measure up to every requirement.

Multnomah

MULTNOMAH IRON WORKS

PORTLAND, OREGON



MODEL M-30-S

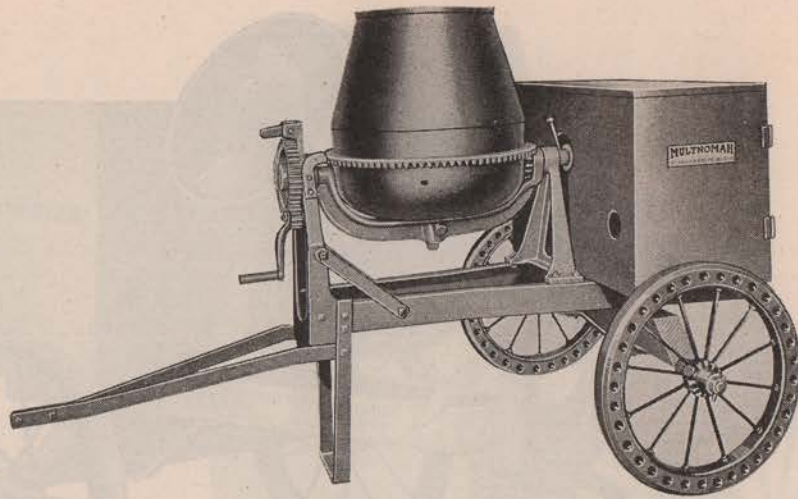
BUILT TO LAST

THE Multnomah Concrete Mixer was designed and built after much intensive study and comparison of the various existing machines and their operation. The result is a mixer as strong or stronger than any similar machine, with no unnecessary parts. The braces are so placed as to give the utmost strength, the drum is of extra heavy gauge steel with a reinforced shoveling edge, the castings and other parts are built to withstand more than double the greatest possible load. The entire machine is made as heavy as possible and still be consistent with good engineering.

SPECIFICATIONS

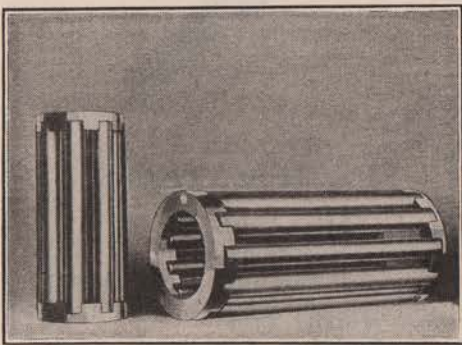
- Capacity—Mixed, $3\frac{1}{2}$ cu. ft.
Unmixed, 5 cu. ft.
(a full one-half sack mixer)
- Drum—Width, 27".
Opening, 19".
Depth, 29".
- Power—2 H. P. standard manufacture gas engine.
- Tires— $30 \times 3\frac{1}{2}$ pneumatic, cushion or solid. Pneumatic tires furnished unless otherwise ordered.
- Weight—1155 lbs.

We incorporate in our machines not only simplicity and correctness of design, but also that quality of materials which insure long life.



MODEL M-30-C

ROLLER BEARING WHEELS

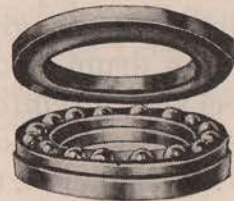


ROLLER BEARING WHEELS

THE trailer wheels are of high grade steel equipped with hardened roller bearings—the same equipment as used on many high grade automobiles. The rubber—pneumatic, cushion or solid—is of a standard, well-known manufacture, capable of standing double the weight of the concrete mixer.

EASY RUNNING

THE entire weight of the drum rests on a hardened steel roller thrust bearing of more than ample size to carry the largest possible load. This reduces the friction to a minimum and the saving in power is a factor not to be overlooked. All the bearings are free moving and provided with the proper oiling devices.



Multnomah

MULTNOMAH IRON WORKS

PORTLAND, OREGON

THE MULTNOMAH BATCH MIXER

SPECIFICATIONS

Capacity—2½ cubic feet.

Power—Equipped with 16"x3" pulley, with hand grip. Can be operated with 1½ horse-power engine.

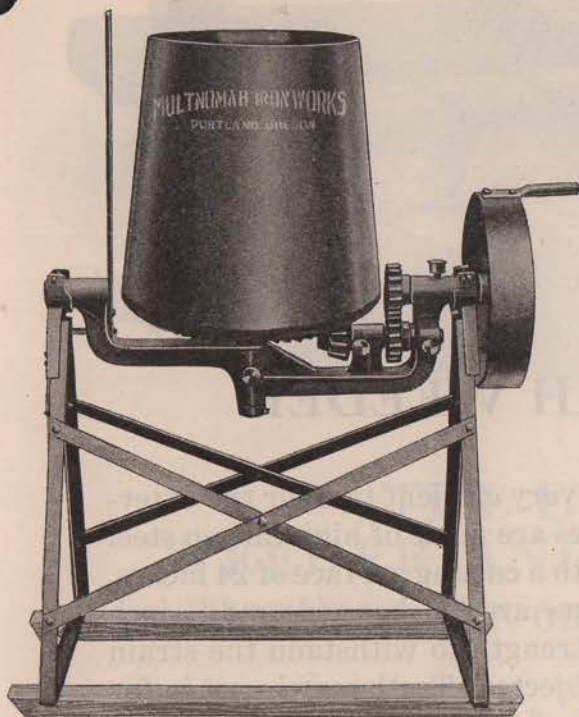
Frame—Made of 1¼" angle-steel, well braced.

Mixing Drum—21 inches in diameter; 22 inches deep; with 17-inch opening.

General Dimensions—Length over all, 3'4"; width, 1'9"; height, 4'4"; charging height, 3'2".

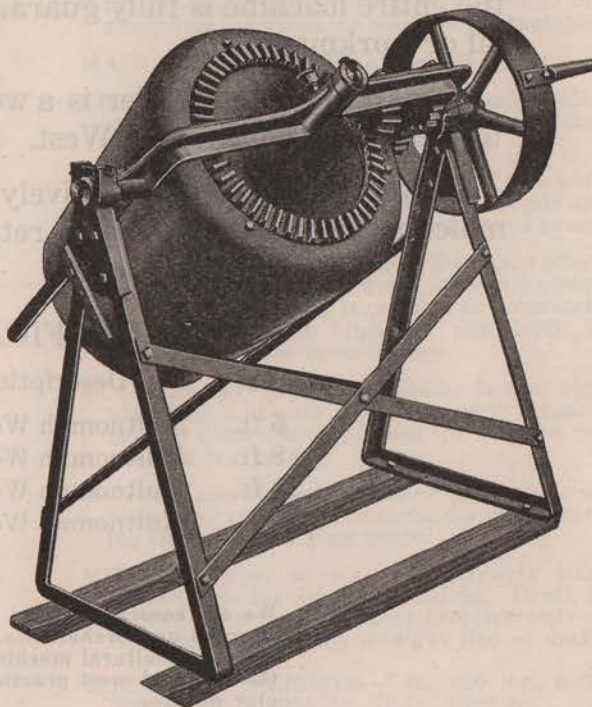
Weight—210 pounds.

THE ideal sized Concrete Mixer for general farm use—Lightweight—Portable—Compact—and does as thorough a job as the larger mixers.



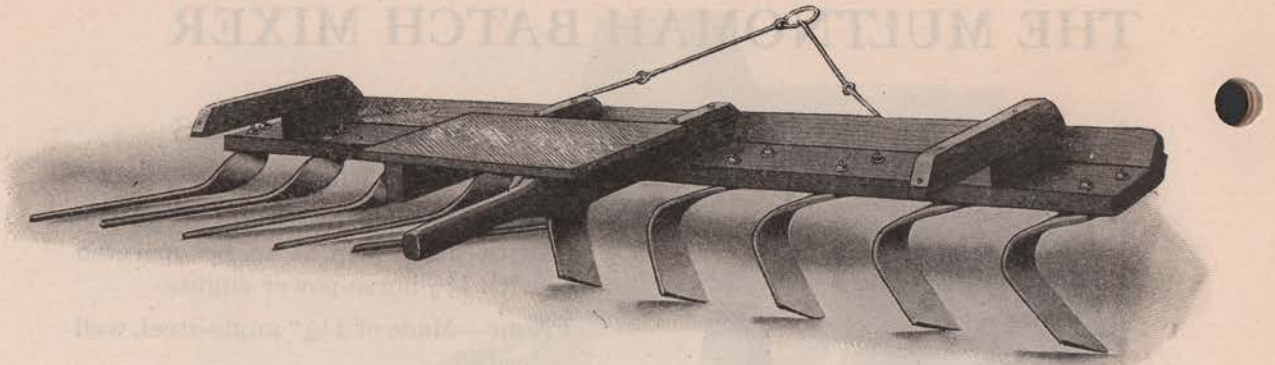
WHILE designed primarily for mixing concrete, dozens of other uses will constantly suggest themselves to the owner. A few of the purposes to which this small mixer is put are mixing feed, mixing seed, washing beet crops, mixing fertilizer, etc. Many are successfully using this outfit for the treatment of seed wheat, a cover being furnished for this purpose at a slight additional cost.

Considering the great variety of possible uses, the Multnomah Batch Mixer is really an indispensable piece of equipment about the farm.



MULTNOMAH IRON WORKS PORTLAND, OREGON

Multnomah



MULTNOMAH WEEDER

THE Multnomah Weeder is a very efficient tool for the extermination of weeds. The blades are made of high carbon steel and have sharp cutting edges with a cutting surface of 24 inches. They are solidly bolted to the frame, are 3 inches wide and $\frac{3}{8}$ -inch thick, which gives them ample strength to withstand the strain to which a tool of this kind is subjected. Teeth may be set in for orchard work. The frame is made of number one Douglas fir and the entire machine is fully guaranteed against defects in material or workmanship.

The Multnomah Weeder is a western product built especially to meet conditions of the West.

They are also used extensively in the semi-arid sections for mulching and assist greatly in retaining the moisture.

SPECIFICATIONS

Size	Description	Weight, lbs.
6 ft.	Multnomah Weeder	156
8 ft.	Multnomah Weeder	187
10 ft.	Multnomah Weeder	220
12 ft.	Multnomah Weeder	240

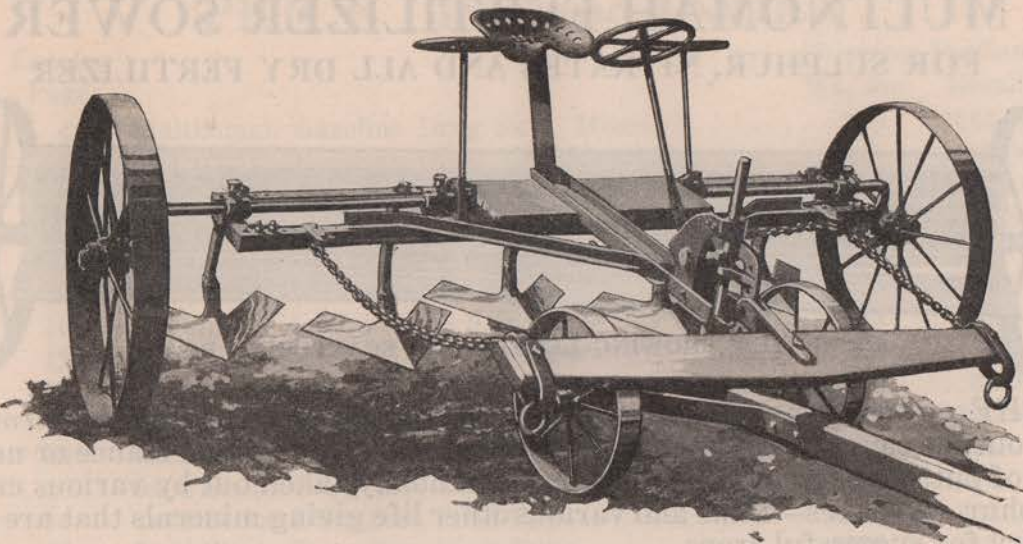
We are constantly alert to the problems of farmers and orchardists. Our weeders and other agricultural machines we believe to be the best and most practical for their particular purpose.

Multnomah

MULTNOMAH IRON WORKS

PORTLAND, OREGON

MULTNOMAH IRON WORKS
FOR STEEL
ALL DRY FERTILIZER



THE EWASEN WEEDER AND CULTIVATOR HORSE-DRAWN OR TRACTOR-DRAWN

ADAPTABILITIES

THE "EWASEN" WEEDER AND CULTIVATOR is in fact more than merely a weeder. It is designed with a view of giving the farmer a utility tool that will be called into service for various uses.

WEEDING—The Ewasen will kill all the weeds in all conditions of soil because the blade cuts at all times and will not come out in tough places as penetration does not depend on pressure springs.

PLOWING—Strength in the construction of blades, shanks and framework permit using the machine for plowing in sections where soil is light and plowing at a medium depth is required.

DISCING—It makes an excellent machine to do work formerly done with a disc harrow, assuring a better seed bed by leaving the field in excellent condition.

CULTIVATING—It can be used for cultivating row planted crops with wonderful success by only a few minor adjustments.

MAKING IRRIGATING DITCHES is another use for this machine by merely using irrigating shovels in place of the regular sweeps as equipped.

HARVESTING BEANS can be done neatly and quickly with this machine. It will take four rows at a time cutting every root and leaving vines in same place as before cutting to be raked up with hay rake attached behind the machine if desired.

DESCRIPTION

FRAME is of rigid steel construction, well braced—built amply strong to withstand the many uses for which the machine is adaptable.

MAIN CROSS FRAMES are 2x2x $\frac{3}{4}$ Angle Iron.

CRANK AXLES are made of 1 $\frac{1}{2}$ " cold rolled steel supported by four bearing boxes equipped with hard oil grease cups.

MAIN WHEELS are 40" high with 4" tire having dust proof boxings; fore truck wheels are 20" high, having 3" tire and dust proof boxes.

ADJUSTMENT FEATURES—Two hand wheel depth regulators with worm gear and pinion screw device making it possible to accurately adjust the cutting blades at any depth of from one-half to seven inches.

SUCTION or TILTING of blades is also regulated by a similar control, a very valuable feature when wanting to use the machine for plowing or discing.

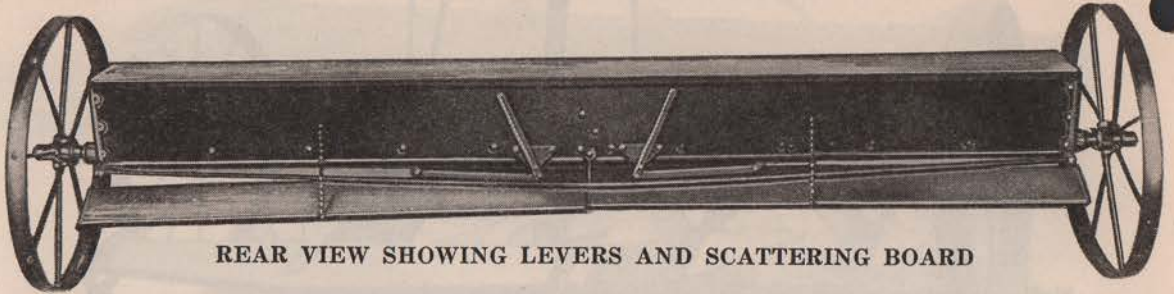
BLADES are 10 and 12 inches long, made of plow steel and can be removed for resharpening the same as a plow share.

HITCHES—Four or six-horse strongly built hitches are furnished as desired. Draft is applied by means of chains to outer ends of front frame, assuring straight line of draft.

SIZES AND WEIGHTS—7-ft., 600 lbs., 8-ft., 700 lbs., 10-ft., 900 lbs., 12-ft., 1020 lbs.

MULTNOMAH FERTILIZER SOWER

FOR SULPHUR, NITRATES AND ALL DRY FERTILIZER

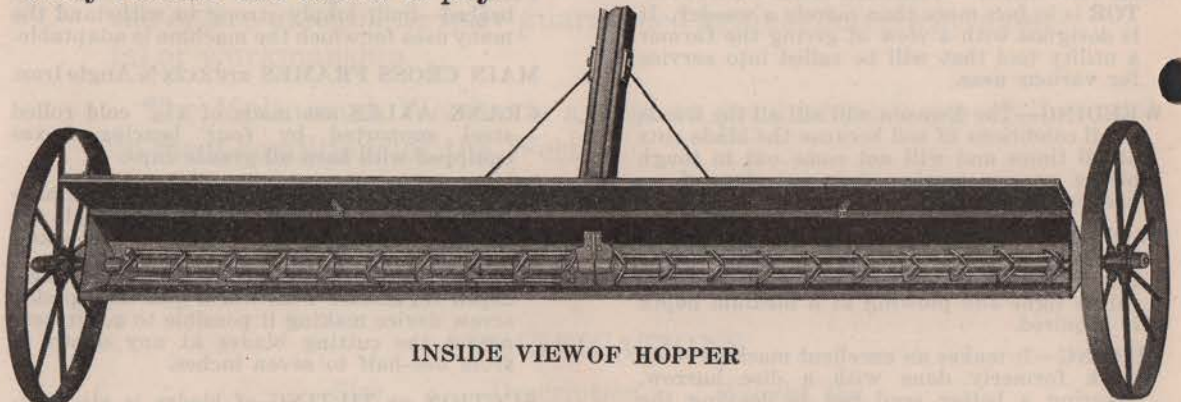


REAR VIEW SHOWING LEVERS AND SCATTERING BOARD

THE agricultural colleges and government experiment stations throughout the country are emphasizing more and more the importance or necessity of putting back into the soil what is annually taken out by various crops. Sulphur—Nitrates—Lime and various other life giving minerals that are necessary for successful crops.

Only a few pounds per acre, from 50 to 150 depending on the condition of the soil and the fertilizer used, are all that need be applied annually, provided that the distribution is uniform and even.

The Multnomah Sower is specially designed for this purpose, the control levers can be so set that the distribution can be made as low as 30 pounds to the acre. The machine is built along the lines of the various fertilizer sowers manufactured by the large implement manufacturers except that it is on a smaller scale, more sensitive as to the feed adjustment, and sold at a price every farmer can afford to pay.



INSIDE VIEW OF HOPPER

As shown on the cut, the agitators make a positive feed and the breaker rods connecting them insure against clogging. Agitators throw both right and left, permitting filling of the hopper with no tendency for the contents working toward one end. Each wheel drives one-half the agitators and a separate lever controls each half of the distribution, which may be as low as 30 pounds to the acre or as high as 6000 pounds.

The machine sows a ten-foot width and the hopper holds about 400 pounds, making it possible to cover considerable ground with two horses.

The agitators are made of tough malleable iron, the other parts being either steel or iron, and all parts are guaranteed against defective material or workmanship. However this guarantee does not apply when hard lumps are put in for the machine to pulverize.

Shipping weight 275 pounds.

Multnomah

MULTNOMAH IRON WORKS

PORTLAND, OREGON

PRICE LIST and INDEX

Catalog Page		Shipping Wt., lbs.	Portland Retail
4	Multnomah Gasoline Drag Saw, Model Y.....	360	\$145.00
5	Multnomah Gasoline Drag Saw, Model YK.....	365	155.00
6	Multnomah Gasoline Drag Saw, Model MN.....	285	141.50
7	Multnomah Gasoline Drag Saw, Model MK.....	290	151.50
8	Columbia Gasoline Drag Saw, Model H.....	360	145.00
9	Columbia Gasoline Drag Saw, Model HK.....	365	155.00
10	Columbia Gasoline Drag Saw, Model MP.....	285	141.50
11	Columbia Gasoline Drag Saw, Model PK.....	290	151.50
12	Multnomah Circular Saw Attachment.....	100	35.00
14	3 $\frac{1}{4}$ x30 Portable Steam Drag Saw.....	330	160.00
15	5x36 Steam Drag Saw, Pond Type.....	1225	425.00
15	5x36 Steam Drag Saw, Deck Type, not illustrated.	1225	400.00
16	7x44 Steam Drag Saw, Pond Type.....	2575	525.00
16	7x44 Steam Drag Saw, Deck Type.....	2575	625.00
17	8x48 Steam Drag Saw, Pond Type, not illustrated.	2660	725.00
17	8x48 Steam Drag Saw, Deck Type.....	2660	825.00
17	5 $\frac{1}{2}$ x14 Steam Lift.....	200	110.00
18	No. 4 Saw Frame, Less Blade.....	200	30.00
18	No. 5 Saw Frame, Less Blade.....	260	35.15
19	No. 6 Saw Frame, Less Blade.....	345	48.10
19	No. 7 Saw Frame, Less Blade.....	290	38.50
20	No. 8 Mandrel Set.....	120	19.25
20	Circular Saw Blades.....		*
20	Drag Saw Blades.....		*
20	Balance Wheels.....	60	6.25
20	Balance Wheels.....	75	7.75
20	Balance Wheels.....	95	9.80
22	Concrete Mixer M-30-P and Z-30-P.....	1155	267.80
23	Concrete Mixer M-30-S and Z-30-S.....	1155	293.80
24	Concrete Mixer M-30-C and Z-30-C.....	1155	273.80
25	Multnomah Batch Mixer.....	210	32.50
26	Multnomah Weeder 6 ft.....	156	25.00
26	Multnomah Weeder 8 ft.....	187	30.00
26	Multnomah Weeder 10 ft.....	220	36.00
26	Multnomah Weeder 12 ft.....	240	42.50
27	Ewasen Weeder and Cultivator, 7-ft.....	600	*
27	Ewasen Weeder and Cultivator, 8-ft.....	700	*
27	Ewasen Weeder and Cultivator, 10-ft.....	900	*
27	Ewasen Weeder and Cultivator, 12-ft.....	1020	*
28	Multnomah Fertilizer Sower.....	275	65.00

*Prices on application.

All Prices F. O. B. Portland.

