SAW MILLS

No. 16

NEW YORK OFFICE
50 CHURCH STREET

1910

AMERICAN SAWMILL MACHINERY CO.

HACKETTSTOWN, N. J. - U. S. A.

General Catalog No. 16 of

American Saw Mill and Wood Working Machinery

Everything for the Saw Mill

Portable and Stationary Circular Saw Mills All Sizes, Gang Edgers, Hand Edgers, Lumber Trimmers, Shingle Machines, Lath Machines, Log Hauls, Log Turners, Live Rolls, Set Works, Mill Dogs and Sawdust Conveyors, Rip and Cut-Off Saw Benches, Swing Cut-Off Saws, Saw Mandrels, Saw Blades, Cord Wood Saws, Drag Saws, Wood Splitters, Planers and Matchers, Band Saws, Turning Lathes, Boring Machines, Bolting Machines, Pulleys, Shafting, Hangers and Gearing

Solid and Inserted Tooth Saws

Excelsior Cutting Machines and Baling Presses

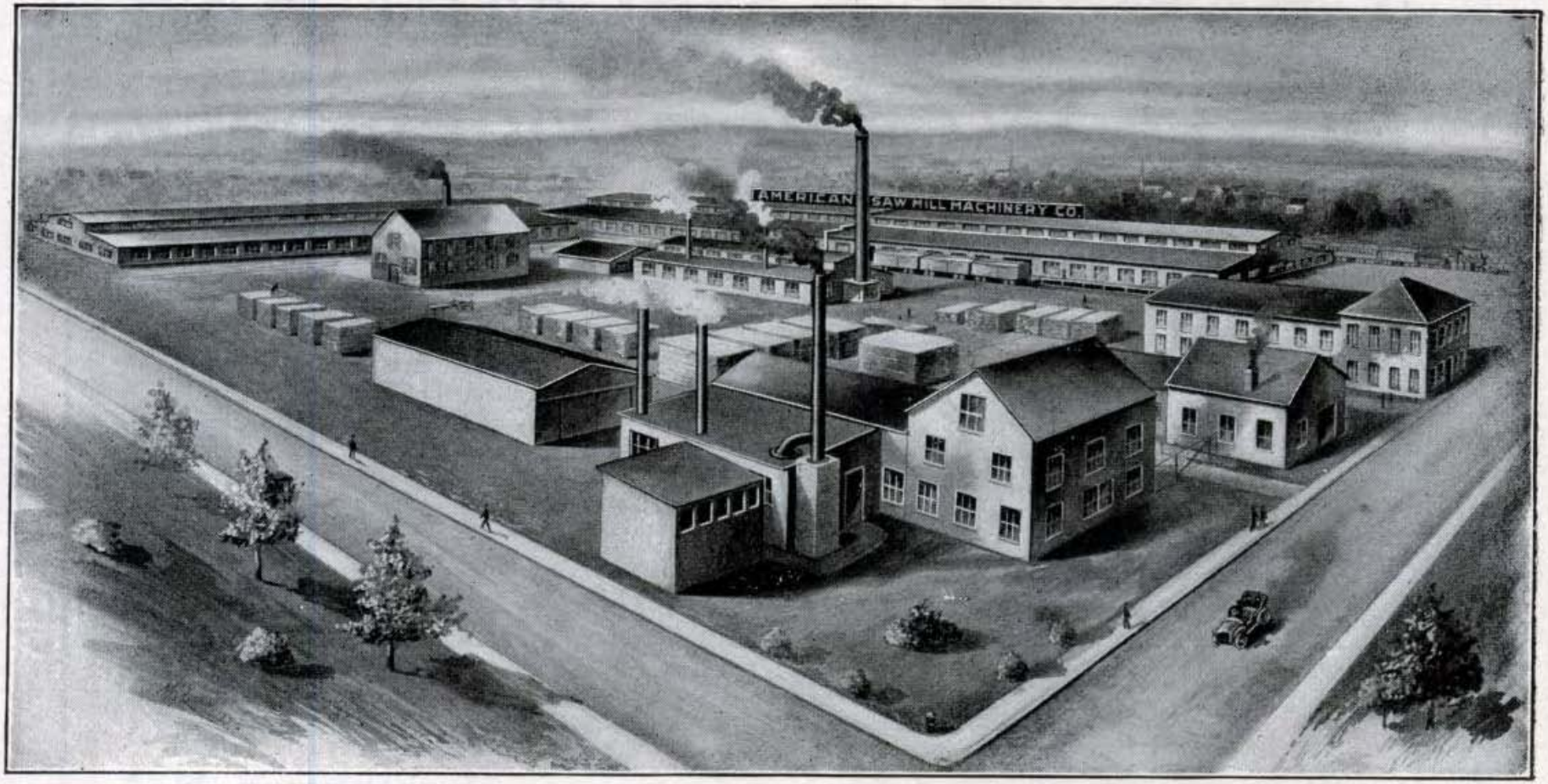
Made by the

American Saw Mill Machinery Co.

New York Office, 50 Church Street — Hackettstown, N. J.

See Complete Telegraph Code in Back of Catalog

Works of The American Saw Mill Machinery Co.



Hackettstown, N. J.

Our Plant

We Call the attention of our friends and patrons to the exceptional and unsurpassed advantages which our location affords and to the splendid manufacturing facilities which we possess in our factory plant.

The Cut on the opposite page shows our works at Hackettstown, N. J., 57 miles from New York City on the main line of the Delaware, Lackawanna & Western R. R. (one of the main trunk lines of the United States), right in the heart of the coal, iron and coke region of the United States, thus placing our raw materials at our very doors at lowest possible cost.

Our Property comprises over six acres located within a few hundred feet of the D. L. & W. freight station with our own side track passing the doors of our warehouse, machine shop, wood shop and foundry, affording every facility for conveniently receiving our materials and shipping our finished product to all parts of the United States, Canada, and the foreign world. These unsurpassed shipping facilities with the low freight rates which we receive to all the large distributing points of the country, together with our nearness to the great seaports of New York, Boston Philadelphia and Baltimore, put us in close touch with the markets of this country and the world.

Our Buildings, which are of the most approved factory design and construction comprise nearly 43,000 square feet of floor area and are equipped in every department with the highest grade, latest improved machinery and special appliances for rapidly and accurately manufacturing our machinery on the interchangeable plan and at lowest cost.

Power is supplied independently to each group of machinery throughout the works by electric motors which receive their current from our own electric generating plant, separate from, though centrally located near the main buildings of the plant.

The Export Trade has been a special feature of our business for several years, and is continually increasing. Our long experience and intimate knowledge of this business enables us to supply machinery particularly designed and constructed to meet the demands of different countries

and so pack our goods as to reduce the cost of shipping and comply with the customs requirements of every foreign government.

Then our nearness to the seaports enables us to deliver our machinery alongside vessels quickly at very low cost and in perfect condition. We believe Export Commission Houses will be quick to recognize these advantages and take advantage of them.

Our Customers will readily understand that they receive the benefit of all these advantages in **Better Made Machinery** at much **Reduced Cost** and the **Prompt** and **Accurate Execution of their Orders.**

Our product embraces all sizes of Portable and Stationary Circular Saw Mills, Gang Edgers, Trimmers, Lath and Shingle Machines, Drag Saws, Rip and Cut-Off Saws, Planers, Band Saws, Lathes, Excelsior Machines, and other Wood Working Machinery. It also includes Log Hauls, Log Turners, Live Rolls, and other Saw Mill Appliances, Hangers, Shafting, Pulleys, Gearing, Turbine Water Wheels, etc.

American

The Synonym of Merit, Worth, Advancement, Improvement

Wherever in the world to-day that machinery is used, **"American"** Machinery is in the lead and is recognized as embodying superior design, the most advanced and up-to-date ideas, every desired improvement, most superior workmanship; in short, **All that is Best.** For this reason all the world is asking to be supplied with **"American"** made machinery.

What is true of **"American"** Machinery in general is true of **"American"** Saw Mills, Shingle Machines, Lath Machines, Gang Edgers, Trimmers, Saw Mill Appliances and Wood Working Machines.

Every machine made by us and bearing our name, **"American,"** is made of the **Best Obtainable Materials,** embodies high grade workmanship and is fully guaranteed.

Every machine is set up and carefully tested, and when it leaves our hands is **known** to be complete and in proper working condition; hence, if properly set up and operated without prejudice, we **Warrant It** to give **Entire Satisfaction.**

We will duplicate, without charge, any piece or part of our machines that may break because of flaws, or defective workmanship, provided the piece be returned to us and shows the defect claimed.

If a machine should fail to start off satisfactorily, it is generally because the operator is not familiar with it and it is not properly set up and adjusted. In such cases, if the purchaser will notify us and state as near as possible the trouble, we can generally give advice necessary to remedy the difficulty.

If this cannot be done we will send an expert to examine and properly start the machinery. If it is found that failure to operate properly is from any fault of ours we will gladly bear all expenses; but if it is found that the machinery is all right but failed to start right because of not being properly set up and adjusted, or from ignorance or carelessness on part of purchaser, then the purchaser must bear the expert's expenses.

American Saw Mill Machinery Co.

A Little Talk About Our Mills

THE HUSK FRAME AND CARRIAGE are made of best selected Southern yellow pine or hard wood, accurately mortised and tenoned, by most approved machinery, thoroughly braced and bolted together, insuring accuracy, long life and perfect stability.

All the iron work on the husk frames is of ample proportions and of such form as to insure great strength and withstand hard usage. The bearings for all high speed shafts are of the chain oiling type referred to below and are firmly secured to the timbers by bolts.

THE MANDREL is made of the best grade of steel, turned and ground perfectly true, with well proportioned collars. The lug pins are fitted in an improved manner so that they can be easily removed right at the mill if they should become sheared off. **The Nut** is so made that the threads cannot be stripped or bruised and the saw can be easily removed without moving the guide. All mandrels are made to take saws with standard holes; that is, with 2 inch holes and two 5/8 inch pin holes on 3 inch circle.

THE MANDREL BOXES are of ample proportions, babbitted and of the well-known chain oiling type now so generally used on all electric motors, dynamos and other high grade, fast running machinery. The chain passes around the mandrel and down into an oil cellar, bringing up a continuous flow of oil which is returned again through suitable channels to the cellar, insuring a clean and cool running bearing. On all except our smallest mill, these boxes rest on **Heavy Sole Plates** provided with adjusting screws for regulating the lead of the saw.

THE SAW GUIDE is of improved design with large throat, can be used either right or left hand, is adjustable while the saw is in motion, and can be easily thrown out of the way for removing or changing saws.

OUR VARIABLE FRICTION FEED is the simplest, yet most durable, perfect and effective ever devised. It is positive and responds instantly to the slightest movement or pressure of the feed lever. It is this feature which distinguishes our mills from all others, makes them so very light running and adapted to use with small power of all kinds. The sawyer, with one hand, has absolute control of the mill at all times, can vary the feed to correspond with the power or the size and kind of timber to be cut, easing down for a hard place and instantly increasing the feed again as soon as it is past.

Only a slight movement of the feed lever will change the feed from half an inch to 6 inches to one revolution of the saw, while another slight movement in the opposite direction will stop the feed or reverse the motion and "gig back" at **any Desired Speed**—all the machinery will stand. There are no springs or belts to break or get out of order and give trouble. With the same power our variable friction feed mills will cut 25 to 40 per cent. more than belt feed mills. Our No. 1 or No. 2 Mills are guaranteed capable of cutting 2,000 feet of board lumber per day with a 6 H. P. steam engine.

THE CARRIAGE is well proportioned, strong and of such width as to best perform the work for which it is intended. The standard lengths are **Built in Two Sections for Convenience in Moving and We can at any Time Furnish Additional Sections which can be Attached without any Alteration of the Original Carriage.** The rear carriage timber is fitted with iron along the top edge to receive the thrust from the head-blocks. On our small mills the feed racks are attached to the front carriage timber, which is from 6 to 8 feet longer than main carriage frame. The large mills have an independent rack beam placed near center of the carriage to equalize the draught when cutting large logs.

HEAD-BLOCKS AND KNEE—Our head-block bases are cast in one piece and of such form as to insure the greatest strength. They are accurately planed to gauges and the knee carefully fitted so that it will slide freely yet without lost motion. They open for actual use full width as per specifications. They are heavy and strong, **Have Graduations Full Length** and provided with convenient pointer and self aligning, adjustable set shaft bearings.

PARALLEL BARS OR FALSE KNEES—When wanted we supply these for any of our head-blocks at a very small additional cost. They are very serviceable in setting out the small end of log or steadying crooked timber, sawing tapering, etc.

DOGS—The close prices at which small and medium saw mills are sold have prevented manufacturers from equipping head-blocks with high grade dogs such as cost alone from $25 to $40 per pair. The installation of special machinery and other equipment for manufacturing in large quantities, has enabled us to offer our customers the advantage of the most perfect and effective mill dog ever invented. Equal in every respect to dogs costing $30 per pair, and at the same time handier and easier to operate. Our "Giant" dogs are furnished regularly with all except the No. 1 Mill.

THE SET WORKS—Our "Ideal" Set Works with Quick Receder are now used on our Standard Mills Nos. 1 to 4 inclusive. The set works are guaranteed accurate and positive, and the receder, operated by the same lever, is of immense value as a time saver. Only a straight pull is required for either setting or receding, no tiresome, twisting motion for releasing pawls. Full description is given on page 57.

SET SHAFTS are of polished steel, extra long, with the key slot extending full length, the head-block pinions being provided with fixed keys, thus permitting head-blocks to be easily moved to any point on carriage for short or long timbers. Adjustable flange couplings connect the set shaft, and **Adjustable Bearings Are Provided** for taking up lost motion.

THE RACK IRON is unusually heavy with coarse pitch thus preventing the jumping and consequent breaking so common in many other mills. It is secured to the rack beam by countersunk bolts which pass entirely through the timber.

THE RACK PINION has strong deep cogs that **Accurately Fit** the rack iron and there are never any complaints of breaks or misfits in these parts.

TRUCK WHEELS on all our mills are heavy and of large diameter with hubs of ample length and are **Turned to accurately Fit** the steel guide track. They are fitted to **Polished Steel Axles** which run in **Self-Oiling Babbitted Boxes** of improved form and have ample provision for taking up lost motion. This insures a light draught, easy running carriage.

MANILA ROPE CARRIAGE DRIVE—We are prepared to furnish our smaller mills with a simple manila rope carriage drive in place of rack and pinion at very slight extra cost. This is a very durable and effective device; giving to the carriage a much longer stroke than the rack and pinion drive. It is easy to set up and a very convenient arrangement for portable mills, see page 47.

WIRE CABLE CARRIAGE DRIVE can be attached to any size mill but is particularly recommended for heavy mills of large capacity using large power. We make two styles of these wire cable drives which are fully described on pages 52 and 53.

TO SUM UP, our mills are built on the latest improved machinery, of the **Best** obtainable materials, by the most skilled workmen and under the direction of men who have had years of

practical experience in building and operating Saw Mill Machinery. Our sole aim is to produce **the Best that can be Made** and always meet the requirements of our customers.

On this account, and because of the peculiar design, we believe we are building the **very best Portable Saw Mill in the United States To-day.** It is the lightest running, easiest to set up and operate and with the same power will cut from 25 to 40 per cent. more lumber per day than any belt feed mill made.

A Few Practical Hints

"Never Buy Anything because it is Cheap." This is specially true with reference to a saw mill. A difference of $20, $30, $50 or even $100 in the first cost of a mill may mean a saving of **Ten Times** that amount in a season's sawing.

Every Experienced Mill Man Knows that the most expensive thing to buy is a **Cheap Saw Mill.** Enough will be lost **in Time,** repairs, and bad lumber in a season to pay for a **Good American Mill.**

Which is the better business? To pay $25 to $50 more for a mill and make **Ten Times** that in a season or pay $50 to $100 less and find at the end of the season you have lost double what you saved on first cost? Doesn't take much arithmetic to figure that out!

American Mills are made to **Make Money** with as well as lumber. They are simple, easy to understand and operate, and **Won't get out of Order.** We send with every mill complete drawings and instructions for setting up, starting and operating so that any intelligent man, whether experienced or not, can easily erect and operate his mill with perfect satisfaction.

When you Order, or Write for Prices, state what **Kind** and **how much** power you have. Give **Diameter** and **Speed** of driving pulley on your engine. State what **Kind** of timber you want to cut, **Diameter** and **Length** of largest logs, and **how much** lumber per day you want to make.

Any size Mandrel Pulley will be furnished up to 24 inch without extra charge, **if Ordered with the Mill.**

A Right Hand Mill has the saw at the sawyer's right and runs toward him.

A Left Hand Mill has the saw at the sawyer's left and runs toward him.

We always Ship a Right Hand Mill unless a Left Hand Mill is specified in the order.

We Reserve the Right to change the details of designs and construction of any of our mills or other machines at any time when in our judgment it will improve them and add to their efficiency.

SIZE OF SAWS—With the Variable Feed Mill, any size saw can be used according to the size of logs—regardless of the amount of power used. With a large saw, a large pulley must be used on the mandrel to reduce the speed to correspond with the size of the saw and the power. The diameter of the saw should be about one and a half times the diameter of the log to be cut—a 36-inch log requires a 54-inch saw—a 40-inch log requires a 60-inch saw, and so on. Six H. P. can be made to run a 54-inch saw successfully by using a thin saw with few teeth and slow speed.

SPEED OF SAWS—Speeding saws too high is a very common mistake—usually a serious and a foolish error of judgment. Saw manufacturers, in their catalogs, give the maximum speeds at which their saws may be operated with safety on the basis of the highest power the saws are calculated to withstand. These speeds cannot properly be used for **Portable Mills** for the reason that often the power used is not sufficient—they are put there for selling purposes of the saw makers and to show what the saw will stand, not what it is supposed to do in practical work. While speed is power—it's easy to consume all the power in speed without doing any work. A 48-inch saw run by a 10 H. P. engine should have a speed of 300 revolutions a minute—slower if the saw has the usual number of teeth. About twenty-four teeth are necessary to give the best results at 300 revolutions—the usual number is thirty.

PORTABLE MILLS, running with 20 H. P. and under, should run the rim of the saw at a speed not exceeding 360 feet per minute to each horse power. For example, multiply 360 by 10 H. P., and divide this by 12 feet (circumference of the 48-inch saw), and you get 300 revolutions per minute. For smaller power the speed should be some higher in proportion, but the saw should have fewer teeth to make up for the higher speed. Twenty H. P. and above should have more speed in proportion to the larger number of teeth. With this power the teeth should be 5 inches apart, which will give 30 teeth to the 48-inch saw. For a larger power, the teeth should be closer together until they reach the limit of 3 inches apart, and then as the power is increased the speed of the saw is increased to correspond. A saw must be speeded right to give the best results.

To aid in the selection of a saw and to determine its proper speed we give the following table based on a saw 48 inches in diameter:

Power	Distance from Point to Point of Teeth	Number of Teeth	Speed of Saw
6	7 inches	22	300
8	7 "	22	300
10	6 "	24	300
12	6 "	24	350
15	5 "	30	400
20	5 "	30	450

To find the proper speed of larger or smaller saws, multiply the speed given of a 48-inch saw by 48 and divide the product by the size of the saw selected. A larger saw should have a greater number of teeth, and a smaller saw a lesser number, the distance apart remaining approximately the same.

Saws for cutting **Hardwood** or **Frozen Timber** are usually **Run at Higher Speed** and have a **Greater Number of Teeth.**

In ordering a saw mill or saw, the amount of power used, size and speed of driving pulley should always be given so that a pulley of the proper size may be sent with the mill and a suitable saw selected.

PROPER GAUGE OF SAWS—For portable mills as a general rule we recommend 8-inch gauge saws. For larger power where saws are run at high speed, or for cutting valuable hard woods, saws of thinner gauge may be used.

HOW TO HANG AND LINE SAWS—It does not follow that because one saw will work well that another will do so on the same mandrel, or that two saws will hang alike on the same mandrel.

In hanging a new saw, after screwing it up between the collars examine carefully on the front or log side, and see if the front of the saw is flat. If it is found to be rounding on the log side, cut a ring of paper about half an inch wide, **the Size of the Collar on the Outside,** oil it and stick it on the face of the tight collar around the outer edge. Then cut another ring of paper the same width, making the hole the same size as the hole in the loose collar; put this small ring between the loose collar and the saw, and screw up the collar. If the two rings are not enough, put in more until the saw comes flat and true. If the saw hangs dishing on the log side, **Reverse the Rings of Paper;** that is, put the small rings between the saw and the fast collar, and the large ring against the loose collar.

DIRECTIONS FOR RUNNING CHISEL TOOTH SAWS—First, the saw should be placed on the mandrel where it is to be run, observing directions for hanging circular saws.

Should the saw run a little out of true on the rim, it may be made to run true by packing with writing paper between the saw and fast collar. It is necessary that the saw mandrel should should be **Perfectly Level** so that the saw will hang **Exactly Plumb.**

Never attempt to run a saw **that is Dishing** on the log side as it will be sure to draw towards the log. **The Carriage Track must be Straight and Level, so that the Carriage can run True.**

HOW TO FILE AND KEEP IN ORDER CIRCULAR SAWS—It is not well to file all of the teeth of circular saws from the same side of the saw, especially if each alternate tooth is bent for the set, but file one-half of the teeth from each side of the saw, and of the teeth that are bent from you, so as to leave them on a slight bevel—leave the outer corners a little the longest.

Never file any saw to sharp or acute angles at the throats or roots of the teeth, but on circular lines, as all saws are liable to crack from sharp corners.

Keep your saw round, so that each tooth will do its proportional part of the work.

Saw teeth wear narrow at the extreme points; consequently they must be kept spread so that they will be widest at the very points of the teeth; otherwise saws will not work successfully.

Teeth should be kept as near a uniform shape and distance apart as possible, in order to keep a circular saw in balance and condition for business.

Frosted steel is always brittle. No intelligent woodsman will use a good chopping axe on hard frozen timber until after he has taken the frost out of it, and no intelligent sawyer will attempt to set teeth of any saw without taking out the frost.

The greatest wear on the saw is on the under edges of the teeth. File nearly to an edge (but not quite), leaving a short bevel of 1-32 of an inch wide on the under side of the point. **But in no Instance File to a Fine Point and Thin Wire Edge.**

Be sure that the saw hangs properly on the mandrel.

The saw must be in proper line with the carriage and the carriage run true.

The mandrel must be level and run freely in the boxes.

Do nearly all the filing on the under side of the teeth, and see that they are **well spread** at the points; file square and have them project alike on both sides of the saw.

If the saw heats in the center when the mandrel runs cool in the boxes, cool it off and line it into the log a little.

If the saw heats on the rim and not in the center, cool it off and line it out of the log a little —and vice versa if it heats in the center. Every sawyer should have a side file to keep the teeth the same width.

Before commencing to insert the teeth, provide a cup of oil, which, together with the teeth, place conveniently near where you will stand, at the back of the saw. Take the wrench, place the pins in the holes in the shank, and turn it so that the hook projects sufficiently to receive the bit, pick up a tooth with the other hand and dip its grooved segment into the oil; then place in position and hold it firmly and even with the sides of the blade, while at the same time press the wrench downward until the shank fits into its place.

The chisel teeth are exact in width, and the spread uniformly good, and make smoother lumber than is made by the solid saw, even when not in the hands of first-class sawyers. If extra nice work is desired, try a gauge on the side of each tooth, and if any are found to project a trifle too far, reduce them with a side file, being careful to preserve the same relief of the corner. No flat surface should be allowed on the sides of the teeth; they must be relieved from the very edge; then the saw will run straight, with the least possible expenditure of power, and make smooth lumber. Practical use of the chisel bits has proven conclusively that in order to get the most and best use of them, when a set has been inserted and properly adjusted, they should remain until they are worn out, and as often as may be required edge them up by applying a file to their face or under side. After being sharpened several times they should be relieved on the sides, so as to keep their corners sharp. Should a shank become straight or compressed, by reason of the saw having been run on iron so that it will not hold the bit firmly, lay it on an anvil and strike it with a hammer on the inner edge until expanded sufficiently to hold the bit.

Do not try the experiment of bending each alternate tooth for the set when using Inserted Tooth Saws.

Use a light hammer in swedging, about ¾ to 1 pound weight, holding the swedge so that the teeth will be spread at the points.

IN FILING SOLID-TOOTH CIRCULAR SAWS keep the throats or roots of the teeth round, or as the saws are when new. **Angles or Square Corners** filed at the roots of the teeth will almost invariably cause a saw to crack. The filing of such angles or square corners will cancel the warranty on any saw. **The Back or Top of the Tooth Leads or Guides the Saw** and should be filed square across. The under sides of the teeth may be filed a little beveled when they are bent alternately for the set, so as to leave the outer corner of the cutting edge longest.

Price List of Variable Friction Feed Saw Mills

Listed with Way Timbers and Belt Tightener

These mills will be found fully described on pages 17 to 25.	Number of Mill	No. 1	No. 2	No. 2½	No. 3	No. 4
	Code Name	Ash	Beech	Birch	Cherry	Dogwood
Standard Mill, regular specifications, as described with Rack and Pinion Carriage Drive—no Saw		**$254.00**	**$310.00**	**$326.00**	**$374.00**	**$454.00**
Manilla Rope drive, with Sheaves, if preferred, add (Page 47)		10.00	10.00	12.00	12.00	
Standard Mill, regular specifications as described with Wire **Cable** drive for Carriage—no Saw		**279.00**	**335.00**	**360.00**	**410.00**	**490.00**
Track Way Timbers if not wanted, deduct		16.00	18.00	18.00	20.00	20.00
Belt Tightener if not wanted, deduct		13.00	13.00	13.00	14.00	14.00
These Attachments or Parts may be Added when Desired						
*Carriage, each additional foot wanted, extra		3.50	4.00	5.00	5.00	6.00
Set Shaft, each additional foot wanted, extra		.60	.75	1.00	1.00	1.00
Way Timbers for track, each additional foot wanted, extra		.40	.40	.45	.45	.50
Track Steel, V shape, each additional foot wanted, extra		.20	.20	.20	.20	.30
Track Steel, flat, each additional foot wanted, extra		.12	.12	.12	.14	.16
Head-block, each additional one with Dog, extra		24.00	36.00	42.00	42.00	48.00
Head-block, each additional one without Dog, extra		16.00	24.00	30.00	30.00	33.00
Head-block with steel base, will cost for each, extra		.....	.....	.....	20.00	20.00
Parallel Bar or False Knee for Head-block, extra		6.00	6.00	6.00	7.00	7.00
Mandrel extended, each additional foot, extra		1.30	1.40	1.40	1.60	2.30
Outboard bearing for extended Mandrel, extra		4.50	5.00	5.00	6.00	8.50
Lumber Trucks (4 wheels, 2 axles), if wanted, extra		12.00	12.00	14.00	14.00	14.00
Sawdust Conveyor fixtures, if wanted, extra		30.00	30.00	30.00	35.00	35.00
Power or Spring Receder, if wanted, extra		.....	30.00	30.00	40.00	40.00
Double Acting Set Works, if wanted, extra		.....	.....	.....	50.00	50.00
Top Saw Attachment, if wanted, extra		.....	.....	.....	155.00	155.00
Carriage Only, complete including Track Steel		145.00	180.00	210.00	215.00	270.00
Husk Frame only, complete with Feed Works (no tightener)		95.00	115.00	115.00	140.00	170.00
Iron Parts only, for complete Standard Mill		199.00	245.00	260.00	300.00	375.00

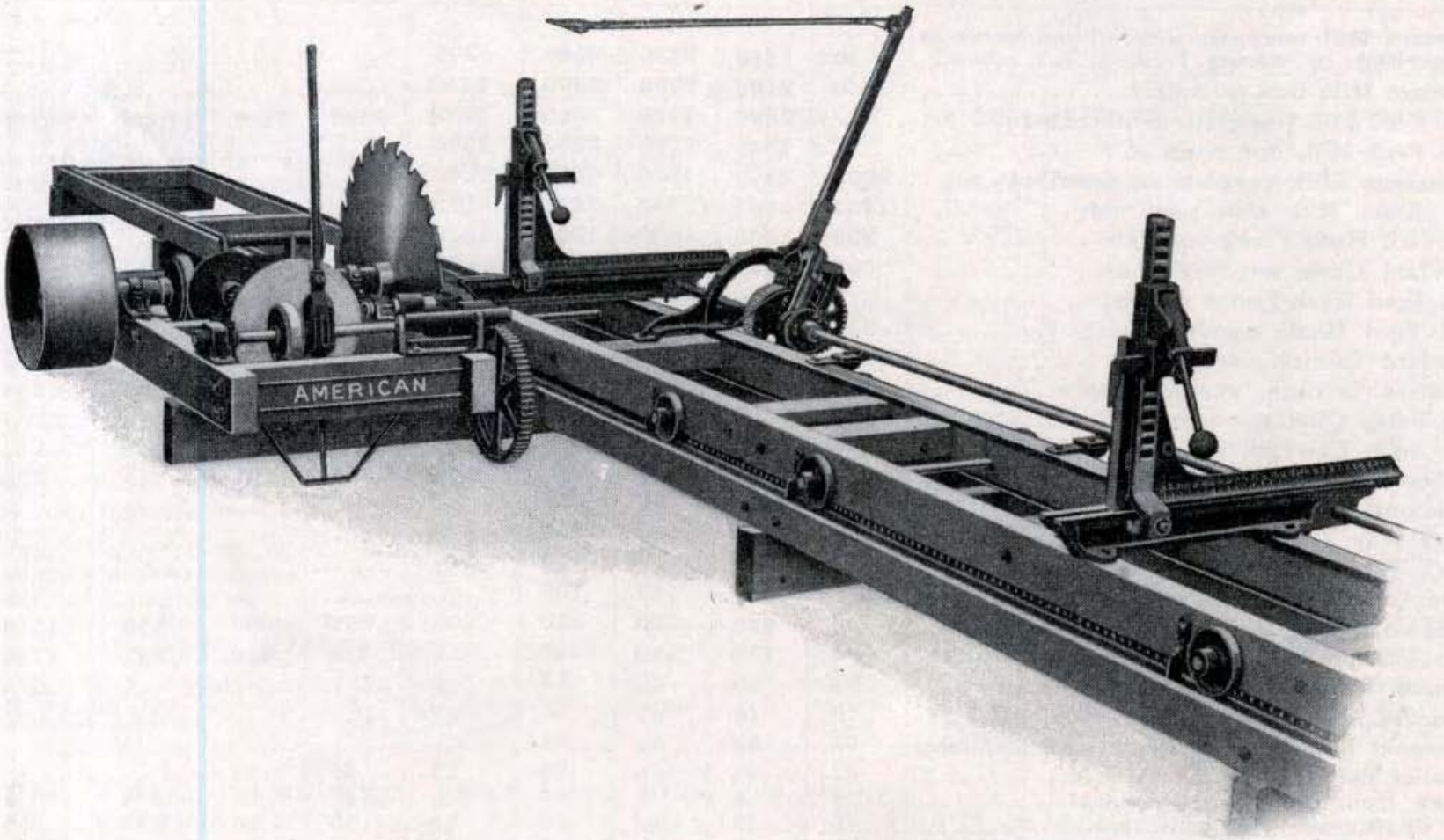
All Mills are made **Right Hand** unless otherwise ordered.
All Mandrels made for saws with 2 in. center hole and two 5/8 in. pin holes on 3 in. circle.
*For Carriages shorter than standard, deduct half the price per foot of additional carriage. For each extra foot of carriage ordered, two feet of track steel is furnished free.

Weights of Saw Mills and Extra Parts

Description	Number of Mill / Code Name	1 Ash	2 Beech	2½ Birch	3 Cherry	4 Dogwood	6 Fir	7 Gum	7½ Hemlock	8 Hickory
Standard Mill complete, with all equipment as described in catalog		2550	3550	3650	4550	5300				
Standard Mill, iron parts only		1650	2100	2700	2800	3150				
Belt Feed Mill, complete as described			3890	3990	5000	5900	7000	9200	11000	16000
Belt Feed Mill, iron parts only			2537	2700	3250	3500				
Log Beam Mill, complete as described		3000	4100	4300	5500	6200				
Log Beam Mill, iron parts only		1825	2607	2790	3290	3972				
Standard Husk Frame complete		800	1000	1000	1300	1550				
Standard Husk, woodwork only		207	283	283	460	478				
Belt Feed Husk Frame complete			1340	1340	1730	2080	2255	3200	3500	4200
Belt Feed Husk, woodwork only			283	283	536	605	605	768	800	1050
Standard Carriage, complete		1300	1800	2000	2600	3200	3750	7000	7500	11500
Standard Carriage, woodwork only		335	440	440	760	950	750	1000	1000	1350
Log Beam Carriage, complete		1700	2500	2700	3500	4200				
Log Beam Carriage, woodwork only		465	610	625	1050	1240				
Additional Standard Carriage, per foot		48	52	66	66	75	87	97	110	200
Additional Log Beam Carriage, per foot		57	61	78	78	87				
Track Way Timbers, standard length		450	550	550	650	650				
Track Way Timbers, each additional foot		11	11	12	12	12				
Wire Cable Drive adds to weight of Carriage				150	100					
Head-block and Dog, each additional		140	230	310	310	335	370	500	620	1175
Head-block without Dog, each additional		94	160	240	240	255	285	410	545	1100
Dummy Head-block Base, each additional		25	30	35	35	45				
Standard for Log Beam, each additional		16	16	27	27	27				
Throwout Knee for Log Beam, each additional		33	33	51	51	51				
Parallel Bar or False Knee		22	22	25	25	25	25	25		
Track Iron, each foot additional		4	4	4	4	5½	11	11	13½	13½
Set Shaft, each foot additional		6	8	10	10	10	10	13	13	16
Extended Mandrel, each foot additional		13	15	15	16	23	23	23	23	41½
Outboard Bearing		22	48	48	50	82	82	82	100	124
Belt Tightener in iron frame		132	132	132	140	140	150	150	165	175
Saw Dust Conveyor Fixtures		136	136	136	142	142	170	170		
Top Saw Attachment					1075	1075	1175	1600	1600	1600

American No. 1 Standard Saw Mill

With Variable Friction Feed



Rack and Pinion Carriage Drive—Code Name, "Ash."

No. 1 Standard Saw Mill

Our No. 1 Mill is adapted to any power from 6 to 15 H. P. It is warranted capable of cutting 2,000 feet of board lumber per day with a good 6 H. P. steam engine if properly handled and is capable of turning out 7,000 to 8,000 feet per day with a 15 H. P. engine. It will carry any size saw up to 52 inches and logs up to 36 inch diameter can be cut.

The **Standard No. 1 Mill** is furnished complete as described below:

Husk Frame 7'x 3' built of 3½"x 7½" timbers.
Variable Friction Feed.
Polished Steel Mandrel 2 3-16"x 4'4" long.
Mandrel Pulley, 20"x 10".
Board Roll, Spreader Wheel and Saw Guide.
Carriage 16' long 26" wide, timbers 3½"x 5½".
Feed Rack 22' long.
Four Trucks with 6" wheels and 1⅛" steel axles.
40' of "V" and Flat Rolled Steel Track.
Two Head-blocks opening 34" with Duplex **Dogs.**
"Ideal" Set Works, with Quick Receder.
14' of polished steel Set Shaft.

Also track way timbers framed and bolted together with steel track attached; belt tightener, foundation bolts, cant hook, oil can and wrenches. **Saw is not Included.**

Weight of Mill as above, 2550 lbs.; (way timbers weigh 450 lbs.)

Longer Carriage, more head-blocks and longer mandrel can be furnished if desired at additional cost. (See page 14).

Rack and Pinion Carriage Drive is furnished unless otherwise specified, but **Manila Rope** or **Wire Cable Drive will be Substituted,** if preferred, at small extra charge. Mandrel pulley of any size up to 24 inch diameter will be furnished without extra charge if ordered with the mill.

Steel Track is furnished with spikes and screws for fastening it down when way timbers are not ordered.

The Carriage is built in two sections and the set shaft is keyseated the entire length so that the head-blocks can be shifted to any desired position. The two pieces of set shaft are connected by an adjustable flange coupling to provide accurate head-block alignment, and the set shaft bearings are adjustable and self aligning.

The "Ideal" Set Works with Quick Receder is strong, positive, rapid and accurate, and greatly increases the capacity of the mill. One lever operates both and the pull is always forward.

The Variable Friction Feed is positive and powerful, and so arranged that there is no pressure or strain on the frictions except when the carriage is in motion. It differs slightly from the feeds used on our larger mills, being adapted to very light powers.

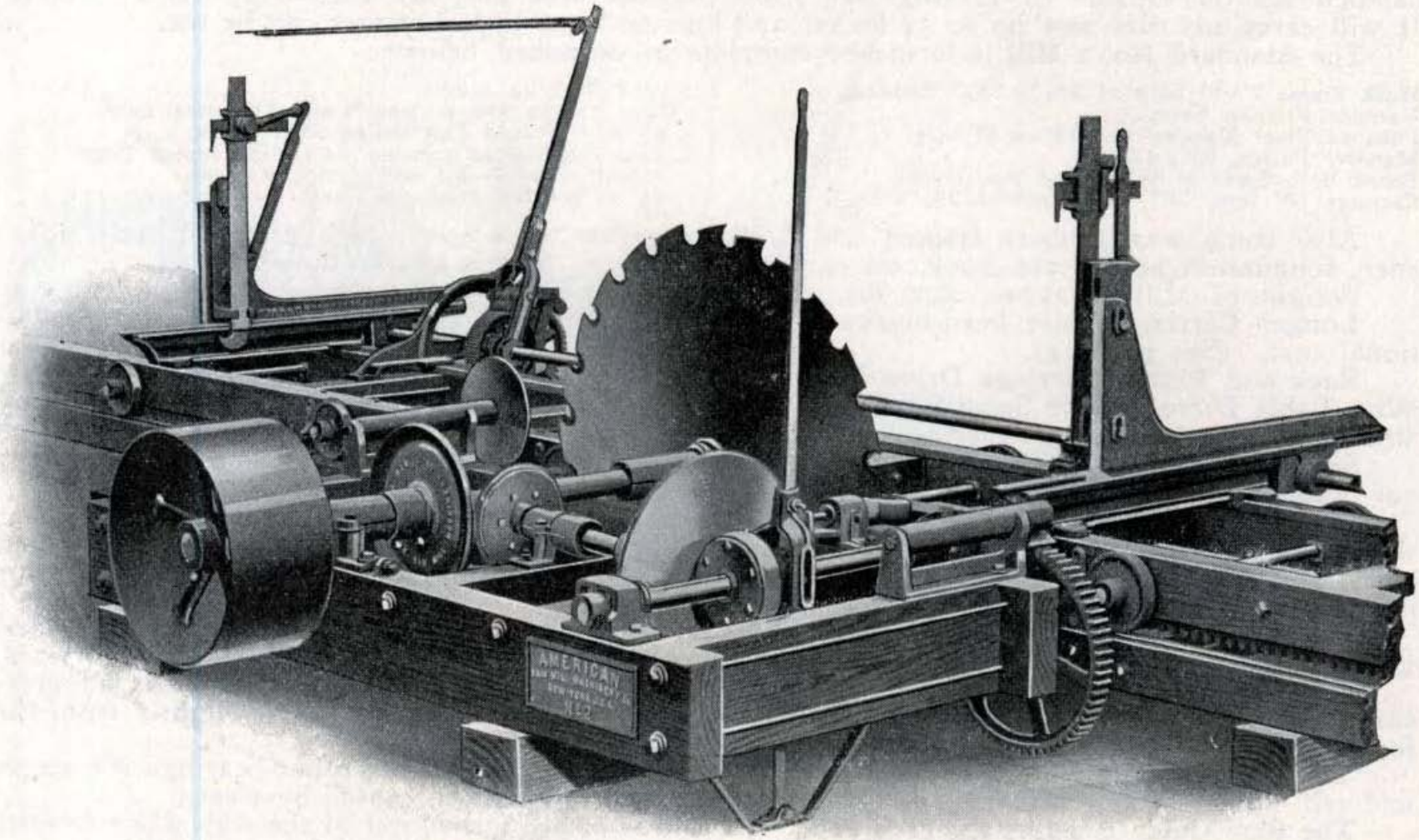
The Mandrel Boxes are 7⅛ inches long and chain oiling, and all the other bearings are ample and self-oiling. Ample provision is made to take up all lost motion caused by wear.

The Saw Guide is adjustable and reversible and is easily turned out of the way when desired.

When packed for export track-way timbers are **not** included and the cubic contents is 74 feet. Net weight 2250 lbs.; gross 2550 lbs. **See Page 14 for Price List.**

American No. 2 Standard Saw Mill

With Variable Friction Feed



Rack and Pinion Carriage Drive—Code Name, "Beech"

No. 2 Standard Saw Mill

Our No. 2 Mill is adapted to any power from 6 to 20 H. P. It is capable of cutting 2,000 feet of board lumber per day with a 6 H. P. steam engine, if properly handled and is capable of turning out 10,000 feet with a 20 H. P. steam engine. Any size saw up to 54 inches can be used and logs as large as 40 inch diameter can be cut.

The **Standard No. 2 Saw Mill** is furnished complete as described below.

Husk Frame 7'6"x 3'6" timbers 3½"x 9½".
Polished Steel Mandrel 2 5-16"x 5' long.
Mandrel Pulley 20"x 10".
Variable Friction Feed.
Board Roll, Spreader Wheel and Saw Guide.
Carriage 20' long 30" wide, timbers 3½"x 5½".
Feed Rack 26' long.
Six Trucks with 7" wheels and 1¼" steel axles.
48' of "V" and Flat Rolled Steel Track.
Two Head-blocks opening 38" with "Giant" Duplex Dogs.
"Ideal" Set Works with Quick Receder.
16' of polished steel Set Shaft.

Also track way timbers framed and bolted together in sections with steel track attached; belt tightener, foundation bolts, cant hook, oil can and wrenches. **Saw is not Included.**

Weight of Mill as above, 3,550 lbs. (Way timbers weigh 550 lbs.)

Longer Carriage, more head-blocks and longer mandrel can be furnished at additional cost.

Rack and Pinion Carriage Drive is furnished unless otherwise specified, but **Manila Rope or Wire Cable Drive** as shown on pages 47 and 53 will be furnished at a small extra cost. Mandrel pulley of any size up to 24 inch diameter will be furnished without extra charge if ordered with the mill.

Steel Track is furnished with spikes and screws for fastening it down, when way timbers are not ordered.

The Carriage is built in two sections and the set shaft is keyseated the entire length so that the head-blocks can be shifted to any desired position. Each head-block is fitted with our "Giant" duplex dogs which are fully described on page 60, and has self aligning set shaft bearings. The two sections of set shaft are connected by adustable flange couplings to insure accurate alignment of the head-blocks.

The "Ideal" Set Works With Quick Receder are strong, positive, rapid and accurate, and greatly increase the capacity of the mill. One lever operates both and the pull is always forward.

The Variable Friction Feed is positive and powerful and so arranged that there is no pressure or strain on the frictions except when the carriage is in motion.

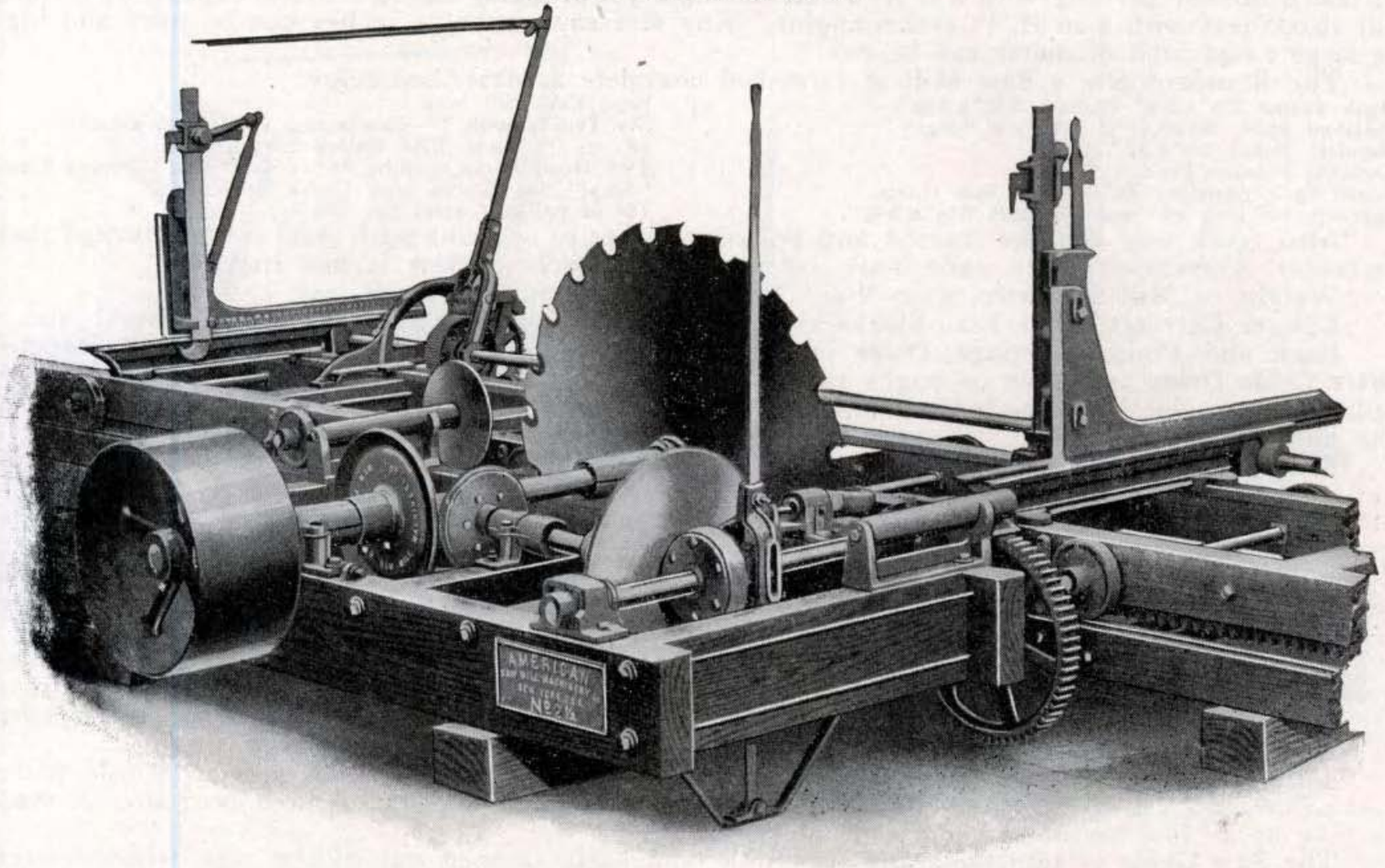
The Mandrel Boxes are 8¾ inches long and chain oiling and provided with iron sole plates and adjusting screws. All the other bearings are ample and self-oiling. Ample provision is made to take up all lost motion caused by wear.

The Saw Guide is adjustable and reversible and easily turned out of the way when desired.

When packed for export track way timbers are **not** included and the cubic contents is 84 feet. Net weight 3150 lbs.; gross 3550 lbs. **See Page 14 for Price List.**

American No. $2\frac{1}{2}$ Standard Saw Mill

Variable Friction Feed



Rack and Pinion Carriage Drive—Code Name, "Birch."

American No 2½ Standard Saw Mill

Our No. 2½ Mill is designed to meet the needs of those having light power and heavy, short timber, requiring a shorter but heavier carriage than our No. 2. Mill. It has the same husk frame as the No. 2 Mill and the same head-blocks and carriage as the No. 3, except that the carriage is shorter. It is suitable for 8 to 25 H. P. and is capable of cutting from 2,000 to 10,000 feet per day if properly set up and handled. It will carry any size saw up to 54 inches, and handle logs up to 48 inch diameter.

The **Standard No. 2½ Saw Mill** is furnished complete as described below:

Husk Frame 7'6"x 3'6" timbers 3½"x 9½".
Polished Steel Mandrel 2 5-16"x 5' long.
Mandrel Pulley 20"x 10".
Variable Friction Feed.
Board Roll, Spreader Wheel and Saw Guide.
Carriage 16' long 36" wide, timbers 4½"x 6½".
Feed Rack 24' long.
Four Trucks with 8" wheels and 1 7-16" steel axles.
48' of "V" and Flat Rolled Steel Track.
Two Head-blocks opening 44" with "Giant" Duplex Dogs.
"Ideal" Set Works with Quick Receder.
14' of polished steel Set Shaft.

Also track way timbers framed and bolted together in sections with steel track attached; belt tightener, foundation bolts, cant hook, oil can and wrenches. **Saw is not Included.**

Weight of Mill as above 3,650 lbs. (Way timbers weigh 550 lbs.)

The Carriage is made in two sections, and is equipped with two head-blocks, "Giant" Duplex dogs and "Ideal" set works with quick receder. The set shaft is slotted full length, and is in two pieces with an adjustable flange coupling for maintaining head-block alignment. We do not recommend a carriage over 20 feet long with this mill.

Rack and Pinion Carriage Drive is furnished unless otherwise specified. **Manilla Rope or Wire Cable Drive** will be furnished at extra cost, see pages 47 and 53.

Steel "V" and Flat Track is furnished when way timbers are not ordered.

The general description of our Nos. 2 and 3 Mills will apply to this mill.

When packed for export track way timbers are **not** included and the cubic contents is 95 feet. Net weight 3250 lbs.; gross 3650 lbs. **See page 14 for Price List.**

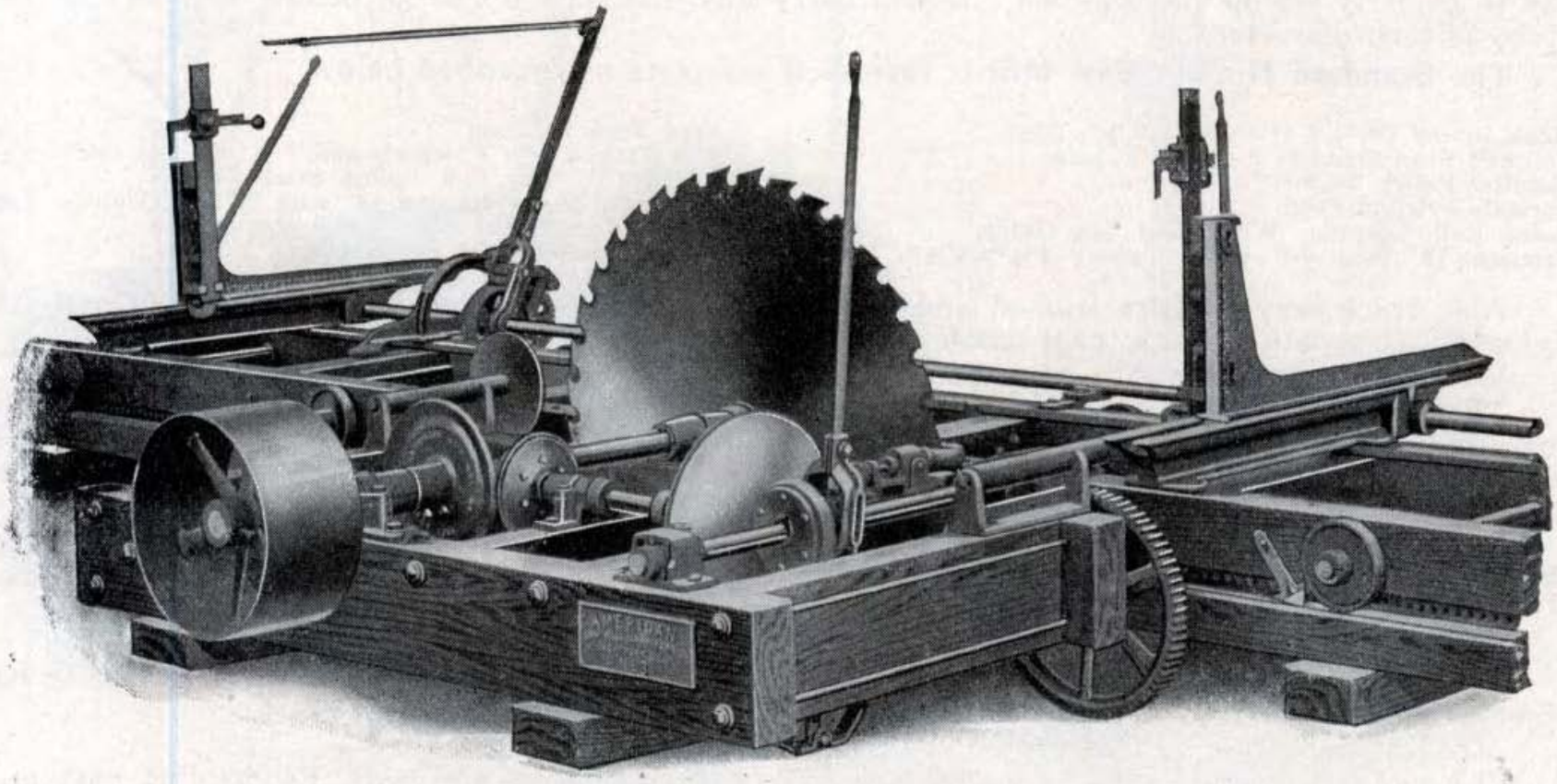
Mr. David Sterner of Allentown, Pa., says:

"Last March I bought one of your No. 2 American Saw Mills and 9 H. P. gasoline engine. I knew nothing about such machinery and bought on your recommendation.

"The mill with this power will easily cut from three to four thousand feet in ten hours, and I have cut a lot of seasoned white oak and hickory. The mill works fine, and if properly handled, will do all you claim for it with this power. I would advise anyone wanting a portable mill to get an 'American.'"

American No. 3 Standard Saw Mill

With Variable Friction Feed



Rack and Pinion Carriage Drive—Code Name, "Cherry."

No. 3 Standard Saw Mill

Our No. 3 Mill is adapted to any power from 10 to 30 H. P. It is warranted capable of cutting 5,000 feet of board lumber per day with a good 10 H. P. steam engine if properly handled, and is capable of turning out 10,000 to 15,000 feet per day with a 30 H. P. Engine. It will carry any size saw up to 60 inches and logs up to 48 inch diameter can be cut.

The **Standard No. 3 Mill** is furnished complete as described below:

Husk Frame 8′x 4′, built of 4½″x 11½″ timbers.
Variable Friction Feed.
Polished Steel Mandrel 2 7-16″x 5′6″ long.
Mandrel Pulley 20″x 12″.
Board Roll, Spreader Wheel and Saw Guide.

Carriage 24′ long, 36″ wide, timbers 4½″x 6½″.
Feed Rack 32′ long.
Six Trucks with 8″ wheels and 1 7-16″ steel axles.
56′ of "V" and Flat Rolled Steel Track.
Two Head-blocks opening 44″ with "Giant" Duplex **Dogs.**

Also track way timbers framed and bolted together in sections with steel track attached; belt tightener, foundation bolts, cant hook, oil can and wrenches. **Saw is not Included.**

Weight of Mill as above, 4,550 lbs. (Way timbers weigh 650 lbs.)

Longer Carriage, more head-blocks and longer mandrel can be furnished at additional cost.

Top Saw Rig as shown on page 46 can be furnished, when wanted, at additional price.

Rack and Pinion Carriage Drive is furnished unless otherwise specified, but **Manila Rope** or **Wire Cable Drive** as shown on pages 47 and 53 will be furnished at a small extra cost.

Mandrel Pulley of any size up to 24 inch diameter will be furnished without extra charge if ordered with the mill.

Steel Track furnished with spikes and screws for fastening, when way timbers are not ordered.

The Carriage is built in two sections and the set shaft is keyseated the entire length so that the head-blocks can be shifted to any desired position. Each head-block is fitted with our "Giant" duplex dogs, which are fully described on page 60, and have **self-aligning** set shaft bearings. The two sections of set shaft are connected by adjustable flange coupling to insure accurate alignment of the head-blocks.

The "Ideal" Set Works with Quick Receder is strong, positive, rapid and accurate, and greatly increases the capacity of the mill. One lever operates both and the pull is always forward.

The Variable Friction Feed is positive and powerful, and so arranged that there is no pressure or strain on the frictions except when the carriage is in motion.

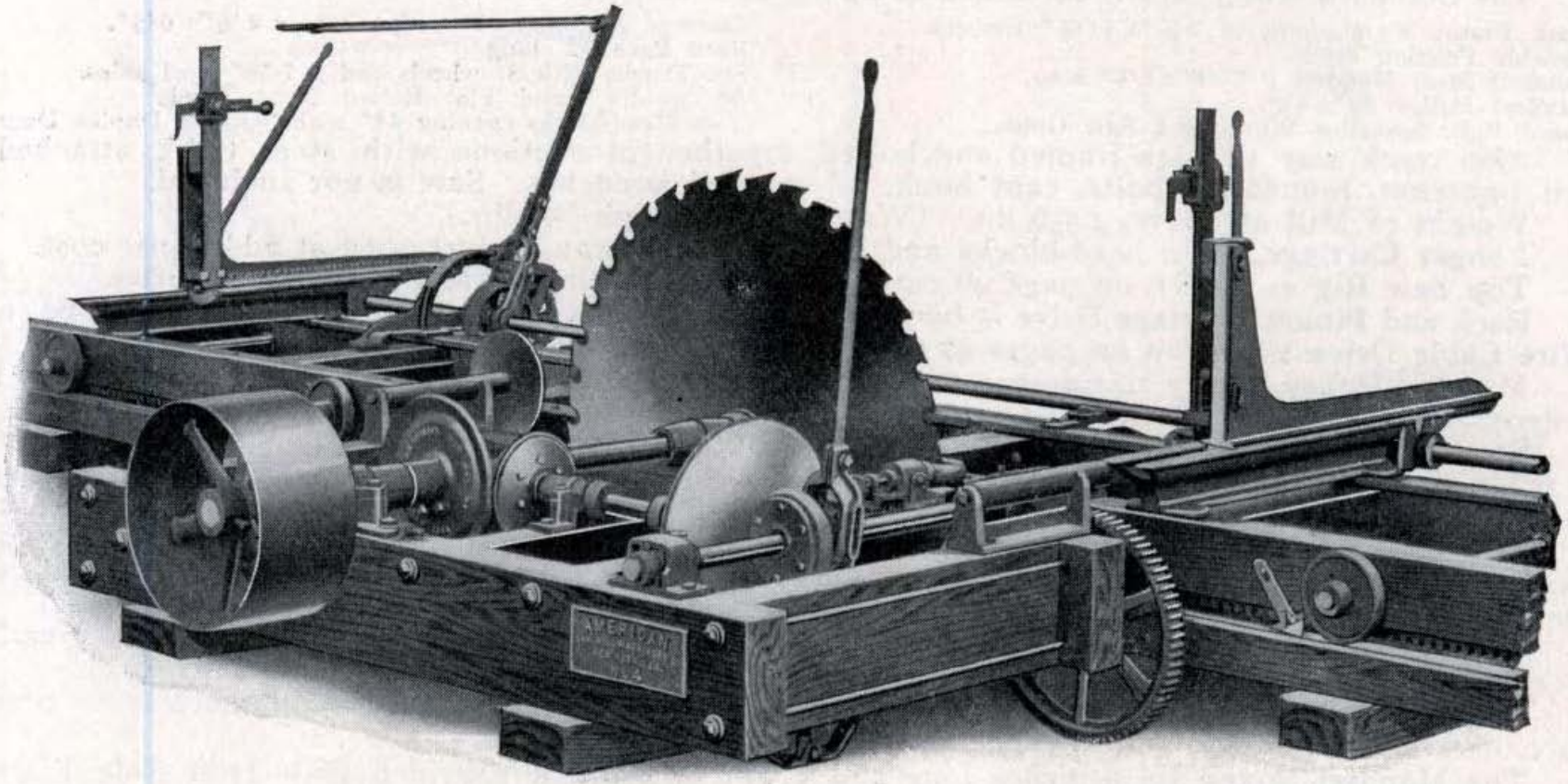
The Mandrel Boxes are 9 inches long and chain oiling and provided with **Iron Sole Plates and Adjusting Screws.** All the other bearings are ample and self-oiling. Ample provision is made to take up all lost motion caused by wear.

The Saw Guide is adjustable and reversible and easily turned out of the way when desired.

When packed for export track way timbers are **not** included and the cubic contents is 145 feet. Net weight 4050 lbs.; gross 4450 lbs. **See Page 14 for Price List.**

American No. 4 Standard Saw Mill

With Variable Friction Feed



Rack and Pinion Carriage Drive—Code Name, "Dogwood."

No. 4 Standard Saw Mill

The design, general construction and equipment of our No. 4 Mill is the same as the No. 3, except that it is much heavier and has an independent rack beam near the center of the carriage. It is adapted to any power from 15 to 40 H. P. and is guaranteed capable of cutting 10,000 to 20,000 feet of board lumber per day according to power used. As an extra heavy portable saw mill or medium stationary mill, it has no superior. Saws up to 60 inch diameter may be used. Head-blocks will open to receive a log as large as 54 inch diameter.

The **Standard No. 4 Mill** is furnished complete as described below:

Husk Frame 8′6″x 4′, built of 4½″x 11½″ timbers.
Variable Friction Feed.
Polished Steel Mandrel 2 15-16″x 5′6″ long.
Mandrel Pulley 24″x 12″.
Board Roll, Spreader Wheel and Saw Guide.
Carriage 24′ long, 40″ wide, timbers 5½″x 5½″.

Feed Rack 32′ long.
Six Trucks with 10″ wheels and 1 11-16″ steel axles.
56′ of "V" and Flat Rolled Steel Track.
Two Head-blocks opening 48″ with "Giant" Duplex Dogs.
20′ of polished steel Set Shaft.

Also track way timbers framed and bolted together in sections with steel track attached; belt tightener, foundation bolts, cant hook, oil can and wrenches. **Saw is not Included.**

Weight of Mill as above 5,300 lbs. (Way timbers weigh 650 lbs.)

Longer Carriage, more head-blocks and longer mandrel furnished at additional cost.

Top Saw Rig shown on page 46 can be furnished when wanted at additional price.

Rack and Pinion Carriage Drive is furnished unless otherwise specified, but **Wire Cable Drive** as shown on pages 47 and 53 will be furnished at extra cost.

Mandrel Pulley of any size up to 24 inch diameter will be furnished without extra charge if ordered with the mill.

Steel Track furnished with spikes and screws for fastening, when way timbers are not ordered.

The Carriage is built in two sections, is extra heavy with large trucks, heavy steel axles and heavy adjustable boxes with large lubricating chambers well bolted under carriage timbers.

The Head-blocks are equipped with "Giant" duplex dogs and our improved self-aligning set shaft bearings. They can be supplied with **Steel Bases** when desired at small extra cost.

The "Ideal" Set Works with Quick Receder is furnished unless otherwise ordered.

Double Acting Set Works with Spring or Power Receder can be furnished at extra cost when so ordered.

The Variable Friction Feed is positive and powerful, and will easily handle the heaviest log.

The Mandrel Boxes are 10 inches long and chain oiling. All the other bearings are ample and self-oiling. Ample provision is made to take up all lost motion caused by wear.

The Saw Guide is adjustable and reversible and is easily turned out of the way when desired.

When packed for export track way timbers are **not** included and the cubic contents is 152 feet. Net weight 4800 lbs.; gross 5250 lbs. **See Page 14 for Price List.**

Price List of "Log Beam" Saw Mills

Listed with Way Timbers and Belt Tightener

These Mills are fully described on pages 26 to 29.	Number of Mill *Code Name	No. 1 Ash Log	No. 2 Beech Log	No. 2½ Birch Log	No. 3 Cherry Log	No. 4 Dogwood Log
Mill with regular specifications, Variable Friction Feed and Rack and Pinion Carriage Drive		**$314.00**	**$380.00**	**$411.00**	**$474.00**	**$554.00**
Manila Rope Drive with Sheaves if preferred, extra		10.00	10.00	12.00	12.00	.....
Mill with regular specifications, Variable Friction Feed and Wire Cable Carriage Drive		**339.00**	**405.00**	**445.00**	**510.00**	**590.00**
Mill with Belt Feed and Wire Cable Drive, otherwise regular specifications			430.00	480.00	544.00	640.00
4 Feet additional Carriage with necessary equipment, extra		14.00	34.00	24.00	48.00	53.00
8 Feet additional Carriage with necessary equipment, extra		44.00	71.00	68.00	72.00	81.00
12 Feet additional Carriage with necessary equipment, extra		63.00	89.00	116.00	122.00	141.00
Track Way Timbers if not wanted, deduct		16.00	18.00	18.00	20.00	20.00
Belt Tightener if not wanted, deduct		13.00	13.00	13.00	14.00	14.00
These Attachments May be Added When Desired						
Track Way Timbers, each additional foot wanted, extra		.40	.40	.45	.45	.50
Track Steel, V shape, each additional foot wanted, extra		.20	.20	.20	.20	.30
Track Steel, flat, each additional foot wanted, extra		.12	.12	.I2	.14	.16
Set Shaft, each additional foot wanted, extra		.60	.75	1.00	1.00	1.00
Mandrel, extended, each additional foot wanted, extra		1.30	1.40	1.40	1.60	2.30
Outboard Bearing for extended Mandrel, extra		4.50	5.00	5.00	6.00	8.50
Dummy Head-block base, each additional one, extra		4.50	4.50	5.00	5.00	7.00
Standards for Log Beam, each additional one, extra		3.00	3.00	4.00	4.00	4.00
Throw-Out Knees for Log Beam, each additional one, extra		8.00	8.00	10.00	10.00	10.00
Gauge Roller as described on page 64 extra		32.00	32.00	32.00	32.00	60.00
Saw Dust Conveyor Fixtures, if wanted, extra		30.00	30.00	30.00	35.00	35.00
Lumber Trucks (4 wheels, 2 axles), if wanted, extra		12.00	12.00	14.00	14.00	14.00
Top Saw Attachment if wanted, extra		.....	.....	.....	155.00	155.00
For mounting complete Mill on four wheel Truck, extra		140.00	150.00	160.00	.....	.....
Carriage only complete Standard length with Track		205.00	250.00	295.00	310.00	370.00

The price of additional lengths of Carriage given above, includes all necessary equipment for carriage and track. When extra carriage is ordered the extra track steel is furnished free.

*When telegraphing about Log Beam Mills, it is necessary to use code name thus, **"Ash Log"** etc., for regular mill, or **"Ash Log Belt"** for belt feed mill, adding the word **Wiry** to indicate wire cable drive when wanted.

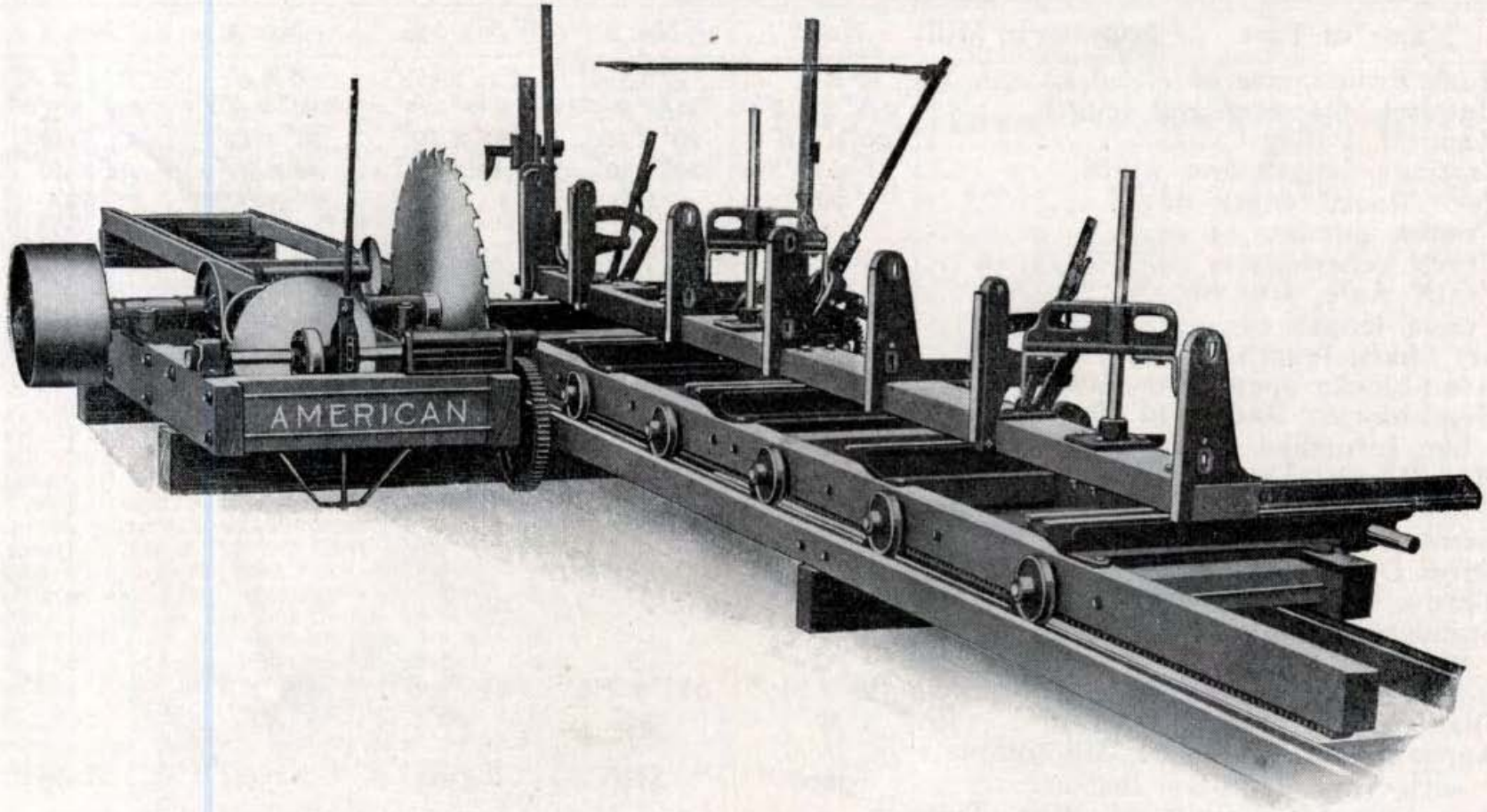
Specifications of "Log Beam" Mills
With Variable Friction Feed

Name of Part / Number of Mill	No. 1	No. 2	No. 2½	No. 3	No. 4
Husk Frame, size of	7′x 3′	7½′x3½′	7½′x3½′	8′x 4′	8½″x 4′
Mandrel, diameter and length	2 3/16″x 4′4″	2 5/16″x 5′	2 5/16″x 5′	2 7/16″x 5′6″	2 15/16″x 5′6″
Mandrel Pulley	20″x 10″	20″x 10″	20″x 10″	20″x 12″	24″x 12″
Carriage, length and width	16′x 26″	20′x 30″	16′x 36″	24′x 36″	24′x 40″
Feed Rack, length of	22′	26′	24′	32′	32′
Trucks, number of	4	6	4	6	6
Truck Wheels, size of	6″	7″	8″	8″	10″
Truck Axle, size of	1⅛″	1¼″	1 7/16″	1 7/16″	1 11/16″
Track, length of	40′	48′	48′	56′	56′
Set Shaft, length of	16′	20′	16′	24′	24′
Head-blocks open from Saw	24″	28″	34″	34″	38″
Head-blocks, Rack and Pinion, number furnished	3	3	3	3	3
Head-block, Dummy Bases, number furnished	2	2	2	4	4
Giant Duplex Dogs, number furnished	1	1	1	1	1
Drop Dogs, number furnished	2	2	2	2	2
Throw Out Knees, number furnished	2	2	2	2	2
Standards on Log Beam, number furnished	3	5	5	5	5
Log Beam, dimensions of	3½″x 7½″	3½″x 7½″	4½″x 8″	4½″x 8″	4½″x 8″
Diameter of Log will take in	30″	34″	40″	40″	44″
Approximate Weight of Mill complete with Way Timbers, lbs.	3000	4100	4300	5500	6200
Approximate Weight of Way Timbers—deduct if not wanted, lbs.	450	550	550	650	650
Approximate Weight of each additional foot of Carriage and Ways, lbs.	75	85	125	125	140

For description and prices see pages 26, 28 and 29
For dimensions of husk frames for Belt Feed Mills see page 37.

American "Log Beam" Saw Mill

With Variable Friction Feed



This Cut Shows a No. 2 Mill

Made in five sizes of the same general specifications as our standard Nos. 1, 2, 2½, 3 and 4 Mills described on pages 17 to 25. For Code names see page 26.

American "Log Beam" Saw Mills

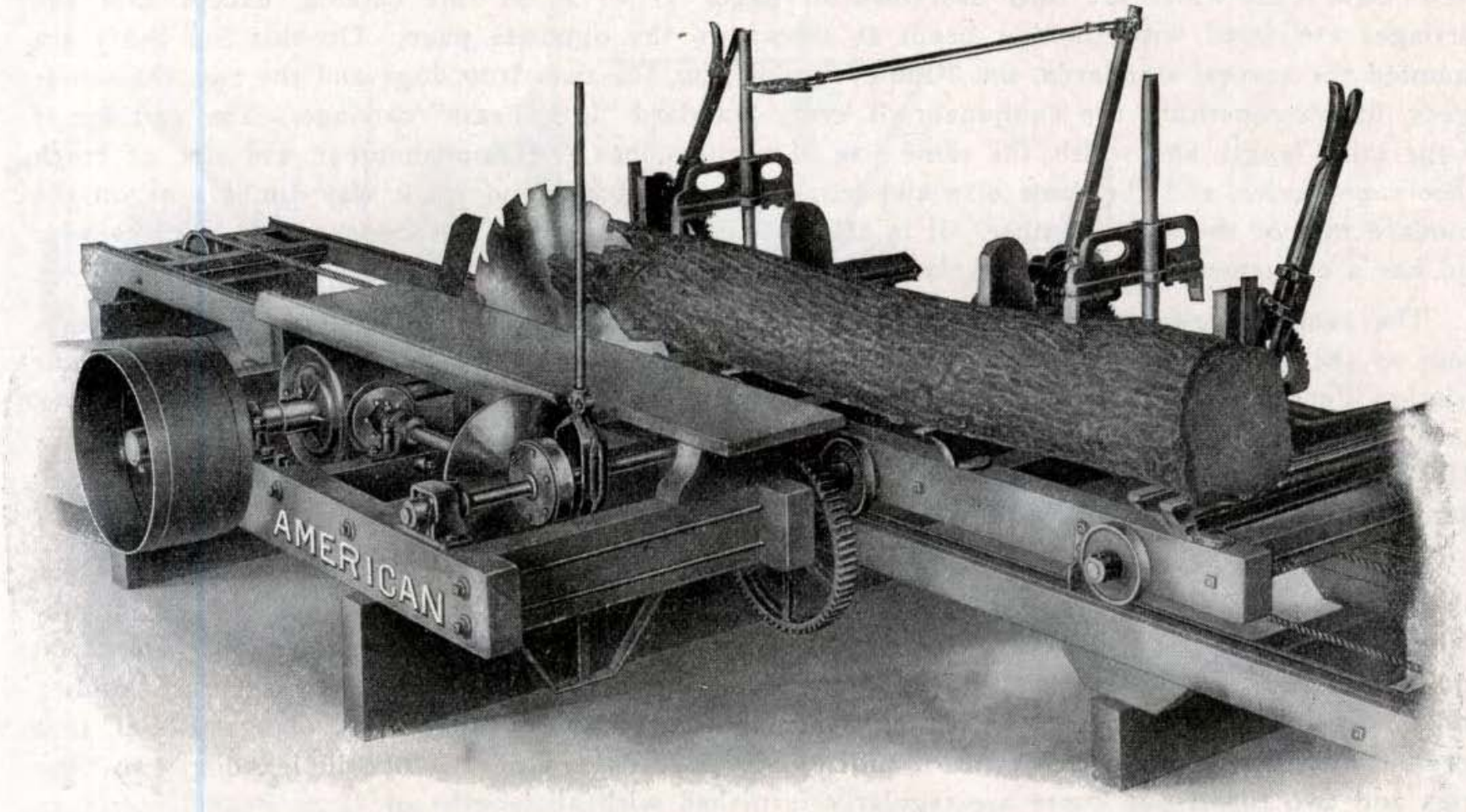
Our "Log Beam" Saw Mills are in every respect the same as our standard "Variable Friction Feed" Saw Mills which are fully described on pages 17 to 25 of this catalog, **except** that the carriages are fitted with the log beam as shown on the opposite page. On this log beam are mounted the several standards, the "Giant" duplex dog, the two drop dogs and the two throw-out knees, which constitute the equipment of every standard "Log Beam" carriage. The carriage is of the same length and width, the same size of timbers, has the same number and size of truck wheels and axles, and the same size and length of steel track and track way timbers as on the standard mill of the same number. It is also fitted with our "Ideal" set works with quick receder and has a convenient and accurate elevated setting gauge or indicator in plain view of the sawyer.

The husk frame is exactly the same in every dimension and detail of construction and equipment as the standard "Variable Friction Feed" Mill of the same number, having the same Variable Friction Feed, the same length and size of mandrel and mandrel pulley, adjustable saw guide, board roll and spreader wheel. The husk frame can, however, be fitted, if preferred, with our "Hercules" type of Belt Feed at an additional cost. The carriage can, if desired, be equipped with **Manila Rope or Wire Cable Drive,** at slight extra cost. See pages 47 and 53.

A Top Saw Rig, as shown on page 46, can be fitted to the No. 3 and No. 4 "Log Beam" Mills, making an unusually substantial and desirable double mill. The No. 1 and No. 2 "Log Beam" Mills, when so desired, can be mounted on a truck with steel wheels, as shown on page 32, at additional cost. The "Log Beam" Mill is particularly adapted for cutting very accurate lumber, and is also recommended for cutting long, slender and springy timber. A Gauge Roller is a very desirable feature on this type of mill. (See page 64). One "Giant" duplex dog, two drop dogs and two throw-out knees are regularly furnished with all lengths of "Log Beam" carriages. For further details and prices, see the table of specifications and price list on pages 26 and 27.

American "Short Log" Saw Mills

With Variable Friction Feed



The Best Mill Made for Cutting Railroad Ties

Ask for large circular showing several views of this mill at work.

American "Short Log" Saw Mills

This Mill is adapted to all kinds of short log sawing, such as railroad and mine ties, fence posts, either straight or taper, and all other short dimension sawing which it does with **great rapidity** and **accuracy.** It is also well adapted to a large variety of heavy bolting work; sawing out handle, chair and bobbin stock, box boards, slats, pickets, etc.

It is fitted with our well known Variable Friction Feed which is positive and light running, admits of a wide variation and adapts the mill to use with light or heavy power.

The Carriage is made in one section with **three** substantial trucks having self-oiling babbitted bearings. It is equipped with **two** rack and pinion head-blocks each fitted with false knees for taper sawing and connected by a log beam on which **two** intermediate knees and **two** quick acting drop dogs are mounted. **Two** dummy head-block bases are provided and the position of these, also the knees and dogs, can be shifted to provide for cutting very short stock.

The Set Works are our "Ideal" ratchet type with quick receder which are positive, accurate and rapid.

Manila Rope Carriage Drive is provided, which is strong and quick and allows the carriage to travel full length of track. **Wire Cable Drive** can be furnished at slight extra cost.

The mill is furnished complete with foundation timbers and way timbers to which the rolled steel track is attached. Each mill is set up and tested to a speed of 1,000 revolutions per minute before shipment. Any size mandrel pulley up to 24 inches furnished without extra charge. Built in two sizes as follows:

No. 1½, Code Name "Shortly"

Husk Frame 7'x 3' timbers 3½"x 7½".
Mandrel 2 3-16" with Pulley 20"x 10".
Carriage 8'x 30" timbers 3½"x 5½".
Trucks 3 with 7" wheels 1¼" axles.
Track and Ways complete 28' long.
Floor space required 28'x 10'.
Weight of Mill complete, 3,000 lbs.
Weight of Track Ways only, 350 lbs.
Weight of Foundation Timbers, 450 lbs.
Weight of Truck, if wanted, 1,000 lbs.
Weight of Mill complete, boxed for export, gross, 3,500 lbs.; net, 3,000 lbs.

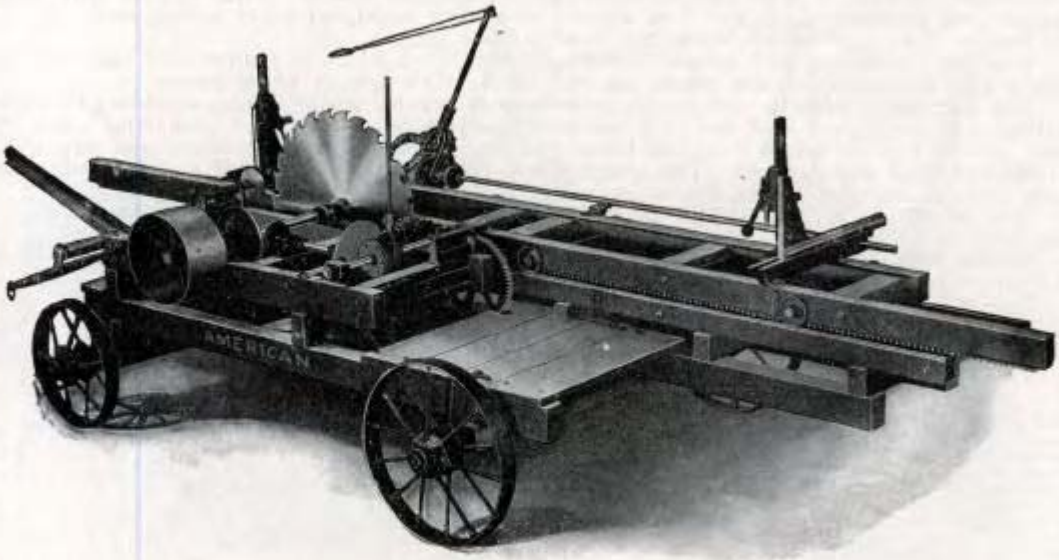
No. 2½, Code Name "Shortness"

Husk Frame 7½'x 3½' timbers 3½"x 9½".
Mandrel 2 5-16" with Pulley 20"x 10".
Carriage 8'x 36" timbers 4½"x 6½".
Trucks 3 with 8" wheels, 1 7-16" axles.
Track and Ways complete 28' long.
Floor space required 28'x 11'.
Weight of Mill complete, 3,700 lbs.
Weight of Track Ways only, 400 lbs.
Weight of Foundation Timbers, 500 lbs.
Weight of Truck if wanted, 1,000 lbs.
Weight of Mill complete, boxed for export, gross, 4,500 lbs.; net, 3,700 lbs.

	With 8' Carriage	With 10' Carriage	With 12' Carriage
Price No. 1½ Mill Complete as described	**$275.00**	**$290.00**	**$305.00**
Price No. 2½ Mill Complete as described	340.00	358.00	376.00

Price of mounting on four wheel truck extra **$125.00.** Foundation timbers if not wanted deduct **$10.00.** Track way timbers if not wanted deduct **$15.00.**

American Portable Mounted Saw Mill



The most sensible and practical mounted Saw Mill on the market. For sawing Railroad Ties it can't be beat. Our Short Log Mills shown on page 30 and Nos. 1 and 2 "Log Beam" Mills, shown on pages 28 and 29, can also be mounted in this manner when desired.

American Portable "Mounted" Saw Mills

The cut on the opposite page illustrates a Standard Variable Friction Feed Saw Mill No. 1 or 2, mounted on a substantial truck with steel wheels. The entire weight of the mill and truck is equivalent to a good two-horse load on an ordinary wagon.

When moving from one setting to another, it is not necessary to remove the carriage or take down any of the machinery, except the two extension sections of the track, which are carried on the same truck by sliding under the frame.

For portable work and for small settings, there is no better or more convenient saw mill made than one of these. It can be successfully operated with from six to twenty H. P. engine and if properly handled, should cut from 3,000 to 8,000 feet per day, even 10,000 feet has been cut on the No. 2 Mill with good power and capable handling.

These mills are in **Every Respect the Same** as our Standard No. 1 and No. 2 Mills which are fully described on pages 17 and 19 of this catalog. They have all the improvements of the larger mills, including the variable friction feed, "Ideal" set works with quick receder, universal adjustable saw guide, rolled steel track, self-oiling boxes and duplex dogs. Throughout they are constructed of the best materials and first-class workmanship.

The following prices do **not** include a saw and driving belt.

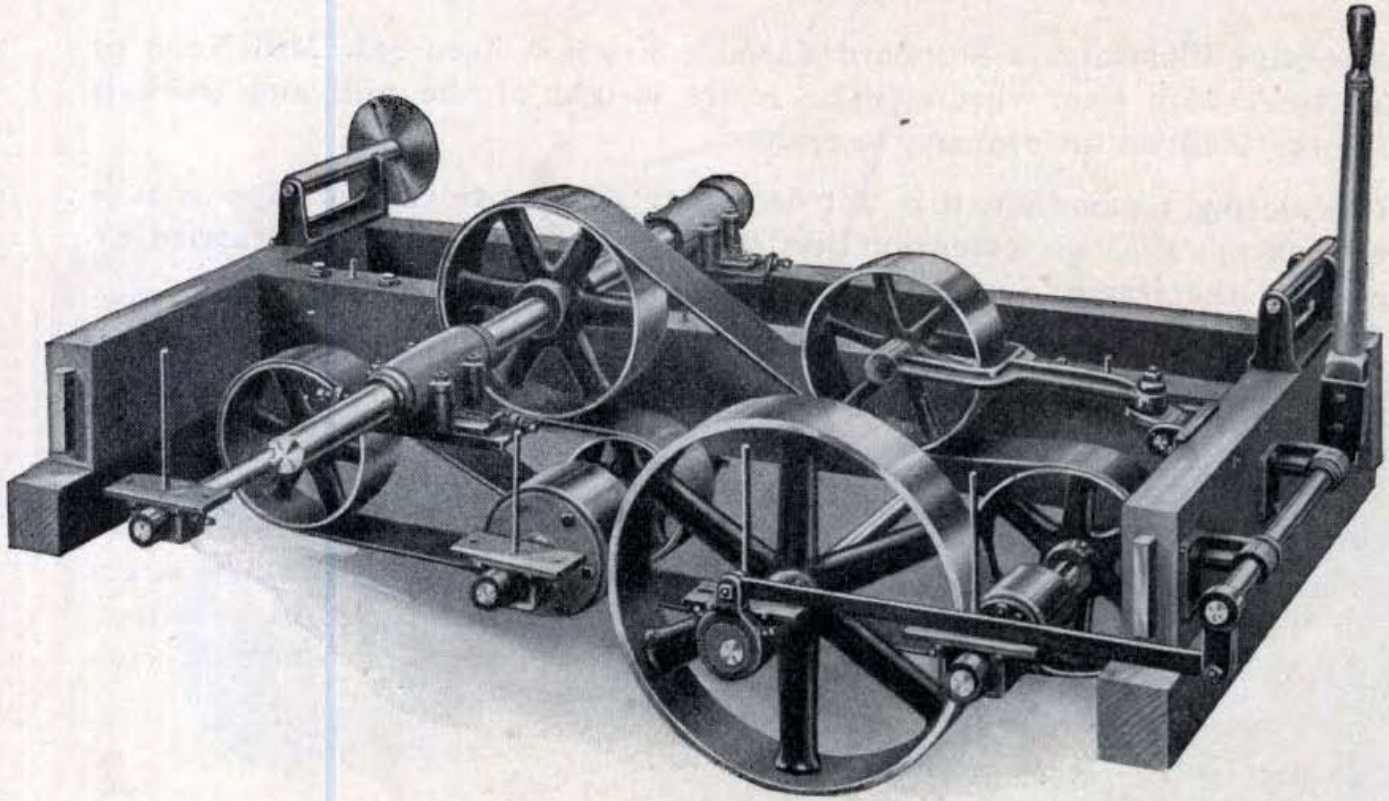
The **No. 1 Mill** has $2\frac{3}{16}$ inch mandrel, 16 foot carriage, 22 foot feed rack, 40 feet of track and belt tightener. Tread is 6 feet, 5 inches. Weight, 4,000 pounds complete.

Price No. 1 Complete with tongue, whiffletrees and neck yoke, **$380.00.** Code name **"Ashes."**

The **No. 2 Mill** has $2\frac{5}{16}$ inch mandrel, 20 foot carriage, 26 foot feed rack, 48 feet of track, and belt tightener. Tread is 6 feet, 5 inches. Weight, 4,900 pounds complete.

Price No. 2 Complete with tongue, whiffletrees and neck yoke, **$438.00.** Code name **"Ashto."**

American "Hercules" Saw Mill Feed



This cut shows very clearly the details of our **"Hercules" Saw Mill Feed** which is a combination of belt and flat-face frictions. It is very powerful and the only reliable and satisfactory friction feed for large heavy mills. It is used on all our "Belt Feed" Mills described on pages 36 to 43.

The feed and gig-back frictions are continuously driven in opposite directions by an endless belt direct from the mandrel, the slack of the belt being automatically taken up by an idler. A single lever operates the feed and gig-back by shifting the bull wheel from one friction to the other, the wire cable drum being driven direct from a pinion on opposite end of bull wheel shaft.

A **Complete Feed** consists of the frictions and pulleys with shafts and boxes, bull wheel with shaft and boxes, feed lever with connections and the idler. Belt can be furnished at extra cost.

The **American "Hercules" Feed** can be fitted to any make of mill. It is made in four sizes at the following prices:

Width of face of feed pulleys	5"	6"	8"	10"
Price Complete, with pulleys and frictions	**$90.00**	**$120.00**	**$170.00**	**$200.00**
Weight complete in pounds	750	1200	1600	2000

Price List of "Hercules" Belt Feed Saw Mills

Nos. 2, 2½, 3 and 4 Listed with Track Way Timbers and Belt Tightener

Nos. 6 and 7 Have Heavy Steel Track but no Way Timbers

These Mills are fully described on pages 34 to 39 — Number of Mill Code Name	No. 2 Beech Belt	No. 2½ Birch Belt	No. 3 Cherry Belt	No. 4 Dogwood Belt	No. 6 Fir	No. 7 Gum
Mill with regular specifications as described with Wire Cable Carriage Drive	**$359.00**	**$396.00**	**$444.00**	**$539.00**	**$750.00**	**$950.00**
Track Way Timbers, if not wanted deduct	18.00	18.00	20.00	20.00	.....	.....
Belt Tightener, if not wanted deduct	13.00	13.00	14.00	14.00	14.00	20.00
These Attachments or Parts May be Added When Desired						
Top Saw Attachment, if wanted, extra	.....	.....	**155.00**	**155.00**	**170.00**	**250.00**
*Carriage, each additional foot wanted, extra	4.00	5.00	5.00	6.00	7.00	8.00
Head-block, each additional one with dog, extra	36.00	42.00	42.00	48.00	68.00	80.00
Head-block, each additional one without dog, extra	**24.00**	**30.00**	30.00	33.00	53.00	65.00
Head-blocks with steel bases will cost for each, extra	.....	.....	20.00	20.00	included	included
Parallel Bar or False Knee for head-blocks each, extra	6.00	6.00	7.00	7.00	7.00	10.00
Mandrel extended, each additional foot, extra	1.40	1.40	1.60	2.30	2.30	2.30
Outboard Bearing, for extended mandrel, each, extra	5.00	5.00	6.00	8.50	**8.50**	8.50
Track Way Timbers, each additional foot wanted, extra	.40	.45	.45	**.50**	.....	.....
Track Steel V shape, each additional foot wanted, extra	.20	.20	.20	.30	.70	.70
Track Steel flat, each additional foot wanted, extra	.12	.14	.14	**.16**	.40	.40
Set Shaft, each additional foot wanted, extra	.75	1.00	1.00	1.00	1.00	1.30
Saw Dust Conveyor Fixtures, if wanted, extra	**30.00**	**30.00**	35.00	35.00	45.00	45.00
Double Acting Set Works, if wanted, extra	.....	.....	50.00	50.00	included	included
Spring or Power Friction Receder, if wanted, extra	30.00	30.00	40.00	40.00	included	included
Lumber Trucks (4 wheels 2 axles) if wanted, extra	12.00	14.00	14.00	14.00	14.00	14.00
Carriage Only, including track steel (no drive)	180.00	210.00	215.00	270.00	500.00	600.00
Husk Frame Only, with feed works complete	140.00	140.00	174.00	220.00	240.00	320.00
Iron Parts Only, for complete Mill as described	295.00	330.00	375.00	460.00	.....	.....

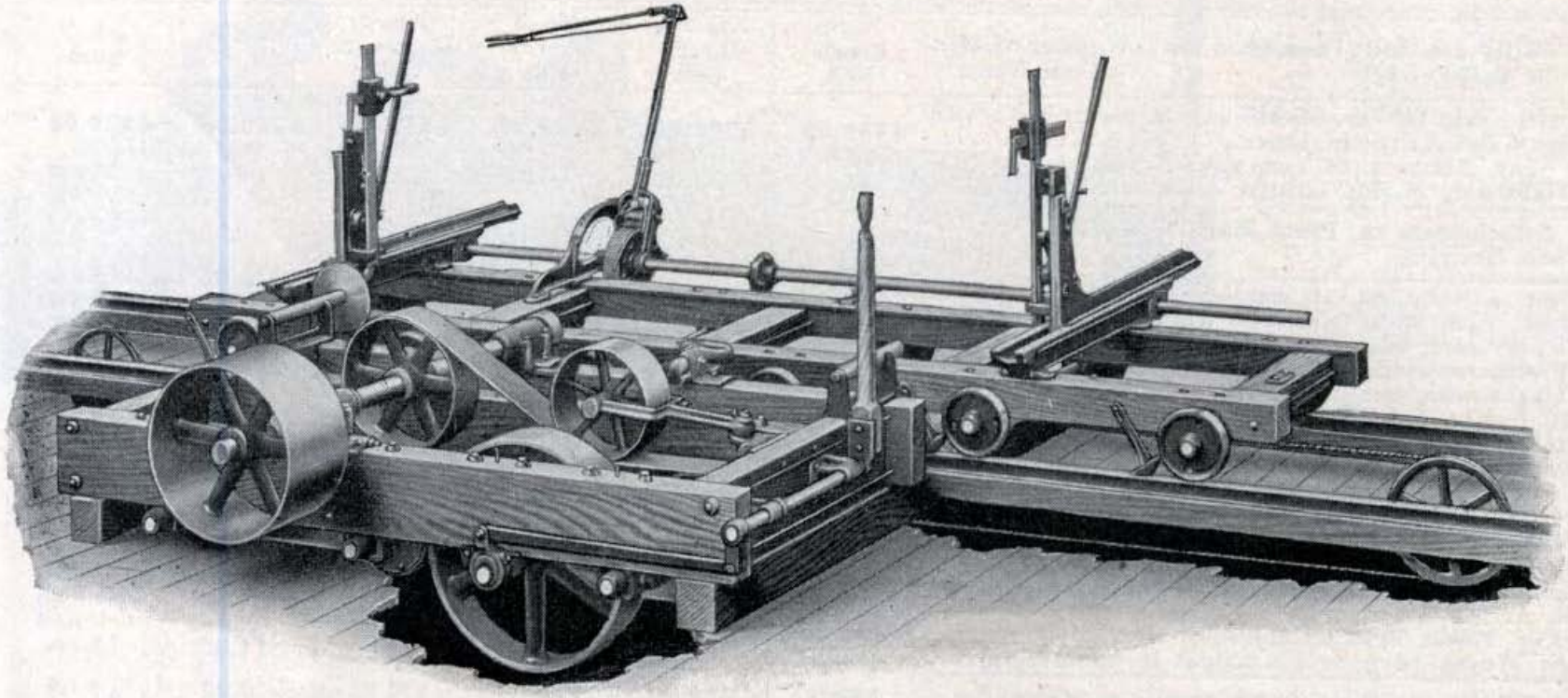
All mills are made **Right Hand** unless otherwise ordered.

All mandrels made for saws with 2 inch center hole and two ⅝ inch pin holes on 3 inch circle.

*For carriages shorter than standard deduct **one half** the price per foot of additional carriage.

When **Husk Frame Only** is ordered no belt tightener is included.

American "Hercules" Belt Feed Saw Mills



The Only Absolutely Reliable Combined Belt and Friction Feed

For prices and code names see page 35.

American "Hercules" Belt Feed Saw Mills

To meet the wants of those preferring a belt feed mill we build four sizes which are the same in their general dimensions and equipment as our Variable Friction Feed Mills Nos. 2, 2½, 3 and 4, described on pages 19 to 25; differing only in the **Length** of **Husk** and **Type of Feed.** Where a strong, fast feed and gig-back are desired and a wide variation of feed is not necessary, we can strongly recommend this mill as one that will meet every requirement and give excellent service.

The Feed is a combination of belt and flat face frictions so arranged that the feed and gig-back frictions are continuously driven in opposite directions by an endless belt direct from the mandrel. (See page 34.)

A Single Lever operates the feed and gig-back by shifting the bull wheel from one friction to the other. The shaft of the bull wheel has a pinion on the opposite end which operates the wire cable drum, doing away with all intermediate gears and securing a strong direct drive for carriage.

The Friction Shafts have babbitted boxes with screw adjustment to take up the wear in the frictions and a substantial idler is provided to keep the endless feed belt always tight.

Carriages are built in two sections, and fitted with two head-blocks, "Giant" duplex dogs, "Ideal" set works with quick receder and rolled steel track, same as the carriages on our "Variable Friction Feed" Mills of same number. Additional head-blocks furnished at extra cost.

Wire Cable Drive is furnished for the carriage of **all Belt Feed Mills** unless otherwise ordered; but rack and pinion drive will be furnished when preferred at same price.

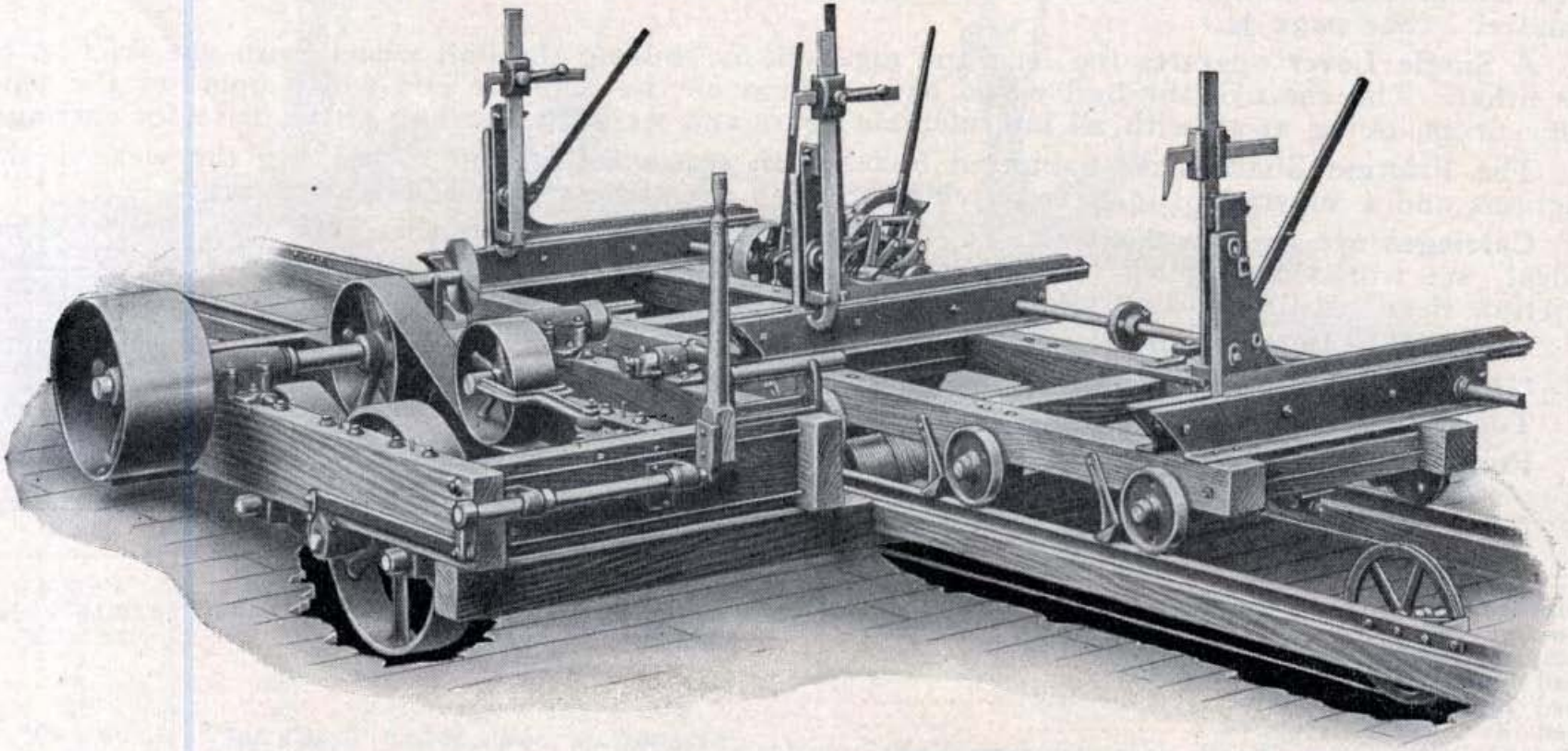
Top Saw Rigs as described on page 46 can be furnished for Nos. 3 and 4 Mills at extra cost.

For Prices See Page 35. For further details of carriages see descriptions of mills on pages 19 to 25.

SPECIFICATIONS	No. 2	No. 2½	No. 3	No. 4
Husk Frame	3½'x 8'	3½'x 8'	4'x 8½'	4'x 9½'
Mandrel	2 5-16"x 5'	2 5-16"x 5'	2 7-16"x 5½'	2 15-16"x 5½'
Mandrel Pulley	20"x 10"	20"x 10"	20"x 12"	24"x 12"
Feed Frictions, width of face	5"	5"	5"	6"
Feed Pulleys, width of face	4"	4"	5"	6"
Feed Belt, length required	20'	20'	21'	23'
Carriage, length and width	20'x 30"	16'x 36"	24'x 36"	24'x 40"
Number of Trucks on Carriage	6	4	6	6
Size of Truck Wheels	7"	8"	8"	10"
Head-blocks will open	38"	44"	44"	48"
Track Steel, length	48'	48'	56'	56'
Weight complete	3890	3990	5000	5900

American "Hercules" Belt Feed Saw Mills

Nos. 6 and 7



American "Hercules" Belt Feed Saw Mills, Nos. 6 and 7

The cut on the opposite page shows our Nos. 6 and 7 Belt Feed Mills intended for permanent plants with plenty of power.

The Feed is our "Hercules" type (see page 34), which we believe is the most powerful combined belt and friction feed used on any mill. A feed varying from 1 inch to 8 inches and a gig-back of 16 inches to one revolution of the saw is obtained by a slight motion of one lever.

The Mandrel has three chain oiling bearings and is furnished with pulley of a size to meet the needs of the purchaser.

Top Saw Rigs shown on page 46 and 48 furnished at extra cost making a heavy double mill.

The Carriage is made of selected yellow pine timber, carefully framed, well bolted and braced with wire cable drive and six sets of trucks having adjustable, self-oiling, babbitted boxes.

Three Head-Blocks are furnished having **Steel Bases** and are fitted with our "Giant" duplex dogs; "Ajax" double tooth or "Knight" dogs can be furnished if preferred at extra cost.

Double Acting Set Works and **Friction Power Receder** are supplied.

The Track is heavy T rail accurately planed to fit the truck wheels.

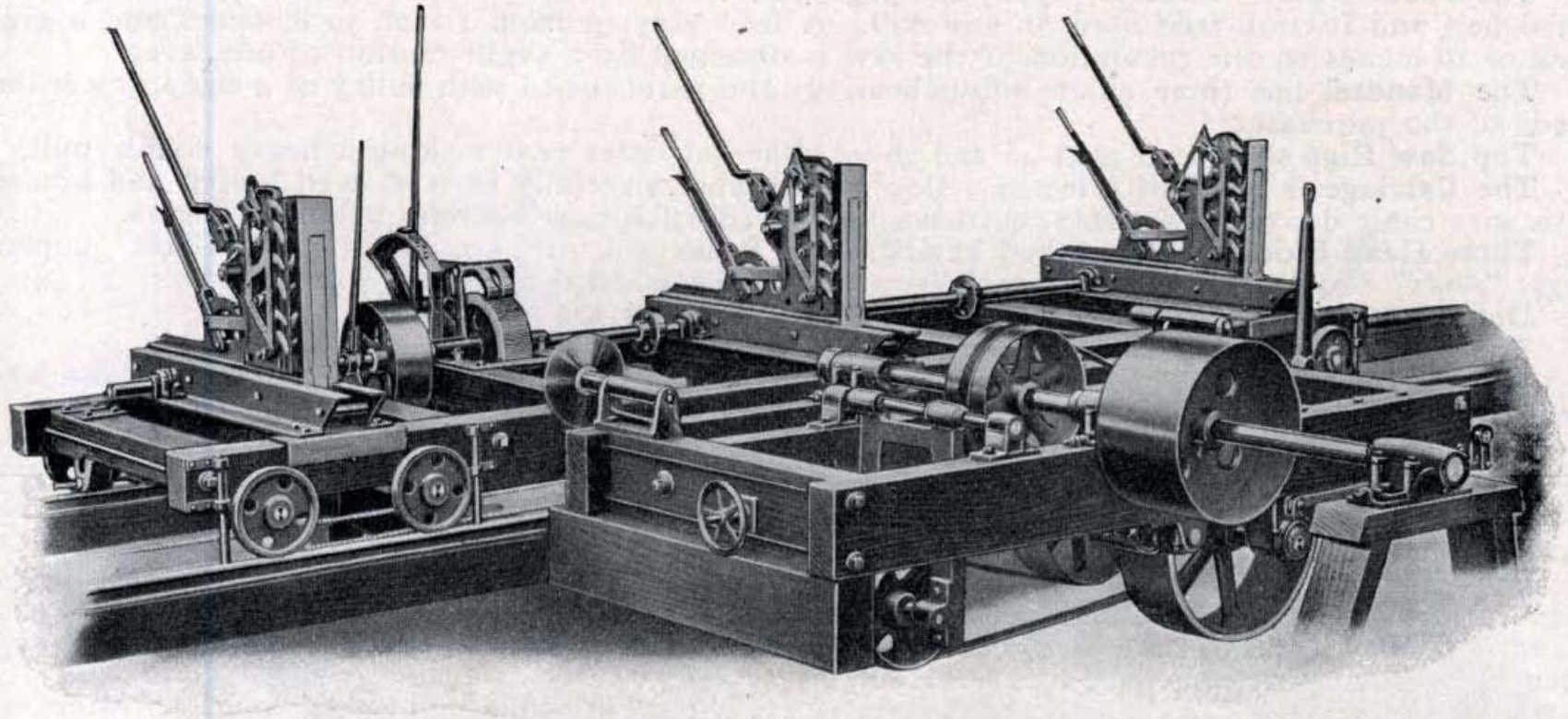
Belt tightener, cant hook, monkey wrench, mandrel wrench and oil can, also plans and measurements for setting, are supplied with each mill.

For Prices see Page 35.

Specifications	No. 6 "Fir"	No. 7 "Gum"
Husk Frame	9′6″ x 4′6″	10′ x 5′
Husk Timbers	4½″ x 11½″	5½″ x 11½″
Mandrel with 3 Chain Oiling Bearings	2 15/16″ x 10′	2 15/16″ x 10′
Mandrel Pulley (unless otherwise ordered)	24″ x 12″	24″ x 14″
Feed Pulleys and Frictions, face	6″	8″
Carriage	24′ long, 40″ wide	24′ long, 44″ wide
Carriage Timbers	5½″ x 5½″	5½″ x 7½″
3 Head-blocks, which open	48″	52″
Cable Drive Drum and Sheaves, diameter	18″	24″
Wire Cable, size and length	½″ x 120′	5/8″ x 120′
Truck Wheels (six sets) diameter	10″	12″
Steel Truck Axles	1 11/16″	1 11/16″
Set Shaft 20′ long	1 15/16″	2 3/16″
Steel Track 60′ long	16 lb. T Rail and Flat	16 lb. T Rail and Flat
Weight complete	7000 lbs.	9200 lbs.

American No. 7½ Heavy Saw Mill

Code Name, "Hemlock"



Our No. 7½ Mill is intended to meet the needs of hose requiring a heavy stationary mill which may be used with **Friction Feed** or **Steam Feed.**

The Husk Frame is 10 feet by 5 feet, made of 5½ inch by 11½ inch timbers. It is fitted with our "Hercules" type of feed which is **very** powerful and admits of a wide range of variation. The feed belt is 8 inches wide and the Feed Frictions are 10 inch face. **The Mandrel** is steel, 2 7/8 inches by 10 feet long and runs in three heavy, chain-oiling bearings. The mandrel pulley has a heavy rim and web center and is turned inside and out and carefully balanced. **Steam Feed** of any type can be supplied at additional cost.

The Carriage is 20 feet long, 59 inches wide, built of 5½ inch by 7½ inch yellow pine timbers, strongly braced and bolted. It is equipped with three head-blocks, having heavy steel bases, extra heavy cast iron knees, opening 46 inches with 5 inch independent movement and fitted with "Ajax" dogs. "Knight" Ideal duplex dogs can be furnished if preferred. It has six trucks with 12 inch wheels and 1 15/16 inch steel axles with self-oiling adjustable bearings. Style "A" 24 inch Wire Cable Drum with 115 feet of ⅝ inch wire cable is furnished. The track is 20 lb. steel "T" rail, 60 feet long, planed to fit truck wheels.

The Set Works are double acting, strong and accurate. Set shaft is 2 3/16 inch steel 20 feet long arranged to insure perfect alignment of the head-blocks.

A Power Receder is supplied which is very powerful and will move the head-blocks backward or forward rapidly and may be used for handling the log or pushing heavy cants on to the live rolls.

The Carriage can be made shorter when desired or a trailer section with automatic couplings can be furnished when ordered at extra cost. Longer mandrel and larger pulley can be furnished at additional price.

Heavy Top Saw Rig shown on page 48 can be supplied when desired at extra cost.

Weight of Mill complete as described, 11,000 lbs.

Weight of Carriage complete with track, and wire cable drive, 7,500 lbs.

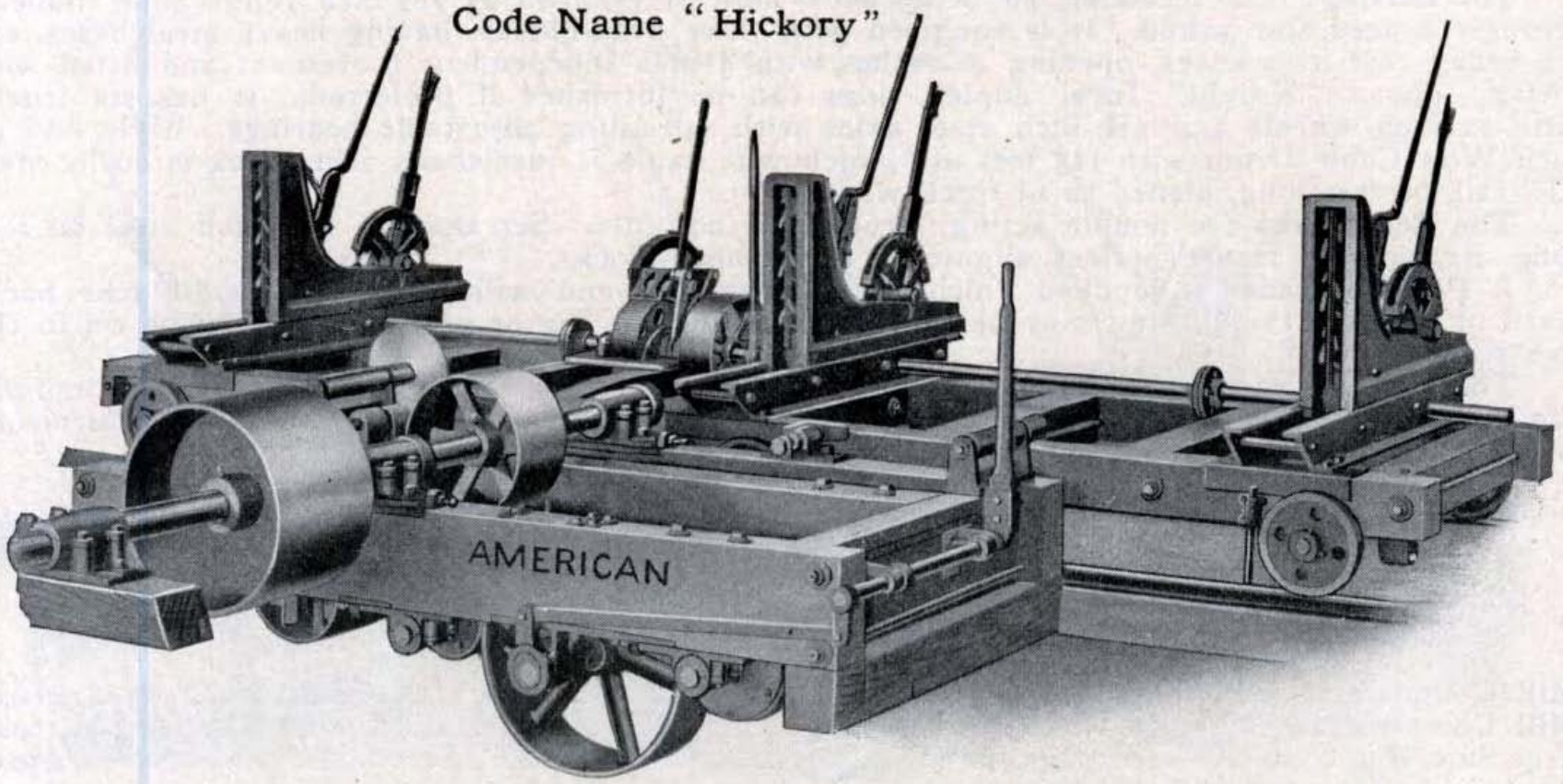
Weight of Carriage complete with track, no drive, 7,000 lbs.

PRICE LIST

Mill Complete as described with **"Ajax" dogs**	$1,200.00
Mill Complete as described with **"Knight" dogs**	1,100.00
Top Saw Rig complete—see page 48 extra	250.00
Feed Works, if not wanted deduct	135.00
Wire Cable Drive fixtures, if not wanted deduct	100.00
Husk Frame only, with feed works, when ordered alone	350.00
Carriage only with "Ajax" dogs and track (n drive)	800.00
Carriage only with "Knight" dogs and track (no drive)	700.00
Extra Carriage per foot with track	10.00
Head-block with "Ajax" dog each extra	160.00
Head-block with "Knight" dog each extra	133.00
Head-block without dogs, each extra	100.00
Mandrel, each additional foot extra	2.30
Additional box for Mandrel extra	8.50
Track each additional foot	.90

American No. 8 Heavy Saw Mill

Code Name "Hickory"



Our No. 8 Mill is designed to meet the needs of those requiring the heaviest type of stationary mills for cutting large heavy timber

The Husk Frame is 10 feet 6 inches by 5 feet, built of best selected timbers 6½ inches by 13½ inches.

The Mandrel is Steel $3\frac{15}{16}$ inches by 10 feet, with three chain-oiling boxes 11¼ inches long and solid web center pulley 26 inches by 16 inches, finished inside and out.

The Feed is our "Hercules" type which we believe to be the most powerful combined belt and friction feed now in use. The feed pulleys and frictions are 10 inch face and the wire cable drum is 30 inches by 16 inches grooved for ¾ inch wire cable which is 120 feet long.

"Shot Gun" or **"Twin Engine" Steam Feed** can be furnished when desired at extra cost.

The Carriage is 20 feet long, 60 inches wide, built of 7½ inch by 7½ inch best grade yellow pine timbers carefully framed, strongly bolted and braced with six sets of trucks having 14 inch wheels and 2¼ inch steel axles with heavy adjustable self-oiling boxes. It is equipped with three head-blocks weighing 1,175 pounds each, having heavy steel bases made of 6 inch Z bars with 20 inch bearings on the timbers and heavy knees cast in one piece which are fitted with "Ajax" double tooth dogs, and open 48 inches from the saw with 6 inch independent movement. Track is 60 feet long, 20 pound steel T rail accurately planed to fit the truck wheels. Special heavy track can be furnished at additional cost.

The Set Works are double acting, very strong, powerful and accurate, and the set shaft is arranged so as to insure accurate alignment of the head-blocks.

A Power Receder is furnished which is rapid and sufficiently powerful to move the heaviest log back and forth, and may also be used for pushing heavy cants on to the live rolls.

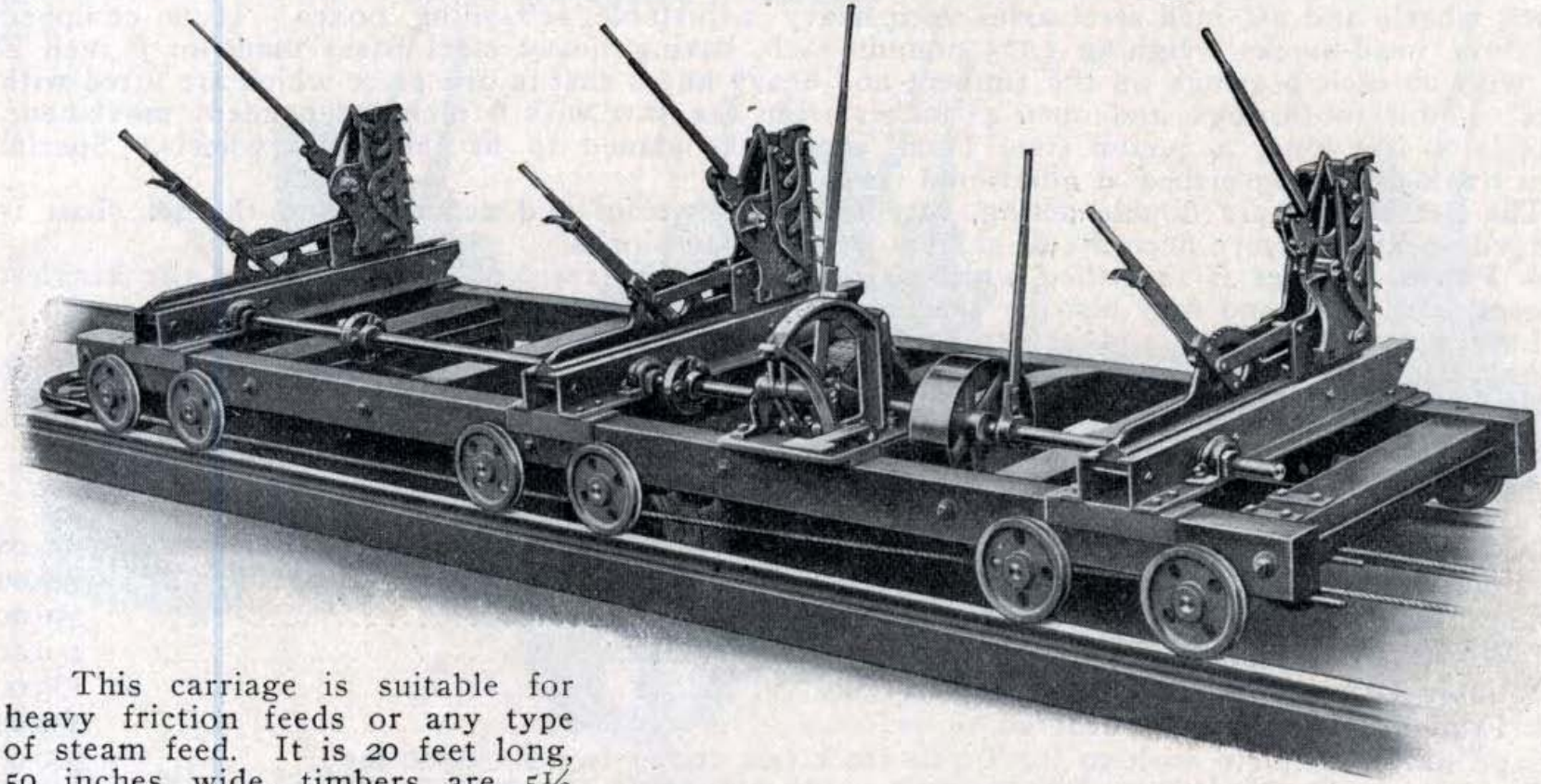
Larger mandrel pulley and longer carriage can be furnished when desired at extra cost.

Any size saw up to 72 inches may be used, and when fitted with our heavy top saw rig, a 66 inch lower saw and 40 inch top saw can be used.

PRICE LIST

Mill Complete as described with 20 lb. T rail track (weight 16,000 lbs.)	**$1,500.00**
Mill Complete as described with 40 lb. special track (weight 16,800 lbs.)	**1,632.00**
Top Saw Rig complete, see page 48 extra	250.00
Feed Works, if not wanted, deduct	150.00
Wire Cable Drive, if not wanted, deduct	175.00
Husk Frame Complete when ordered alone	450.00
Carriage only, complete with 20 lb. T rail track (no drive) (weight 8,500 lbs.)	900.00
Carriage only, complete with 40 lb. special track (no drive) (weight 9,300 lbs.)	1,032.00
Extra Carriage, per foot with T rail track	12.00
Extra Carriage, per foot with special track	13.10
Head-block only, with "Ajax" double tooth dog, each	204.00
Head-block only, without dog each	144.00
"Ajax" Dog, when ordered alone each	60.00
Mandrel, each additional foot, extra	4.60
Additional boxes for extended mandrel, each	18.00
Track per foot, 20 lb. T rail 90c, 40 lb. special rail	2.00

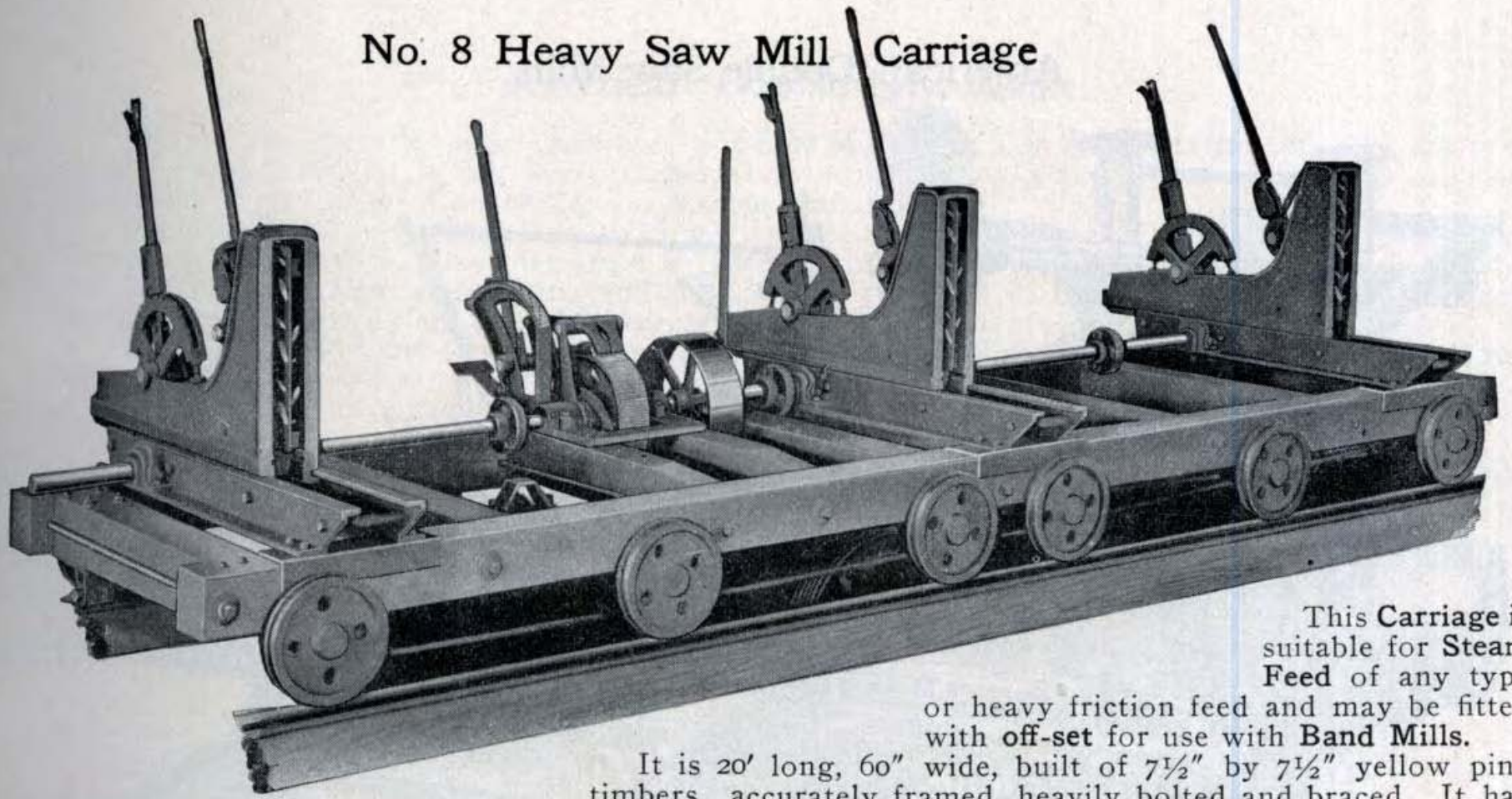
American No. 7½ Saw Mill Carriage



This carriage is suitable for heavy friction feeds or any type of steam feed. It is 20 feet long, 59 inches wide, timbers are 5½ inches by 7½ inches, has six trucks with 12 inch wheels, 1 15/16 inch steel axles with adjustable self-oiling boxes, three steel base head-blocks opening 46 inches with 5 inch taper movement and "Ajax" or "Knight" dogs as ordered. Track is 20 pound steel T rail, 60 feet long planed to fit wheels. Double-acting set works are strong and accurate. 20 feet of 2 3/16 inch steel set shaft. Power receder is furnished. Can be made shorter or can be furnished with **Trailer Section** of any length with automatic couplings when desired at extra cost.

Price List		**"Ajax" Dogs**	**"Knight" Dogs**
Carriage Complete with track and dogs (weight 6,500 lbs.)		**$800.00**	**$700.00**
Extra Head-block each with dogs		166.00	133.00
Extra Carriage per foot with track	**$10.00**	Extra track per foot	.90

No. 8 Heavy Saw Mill Carriage



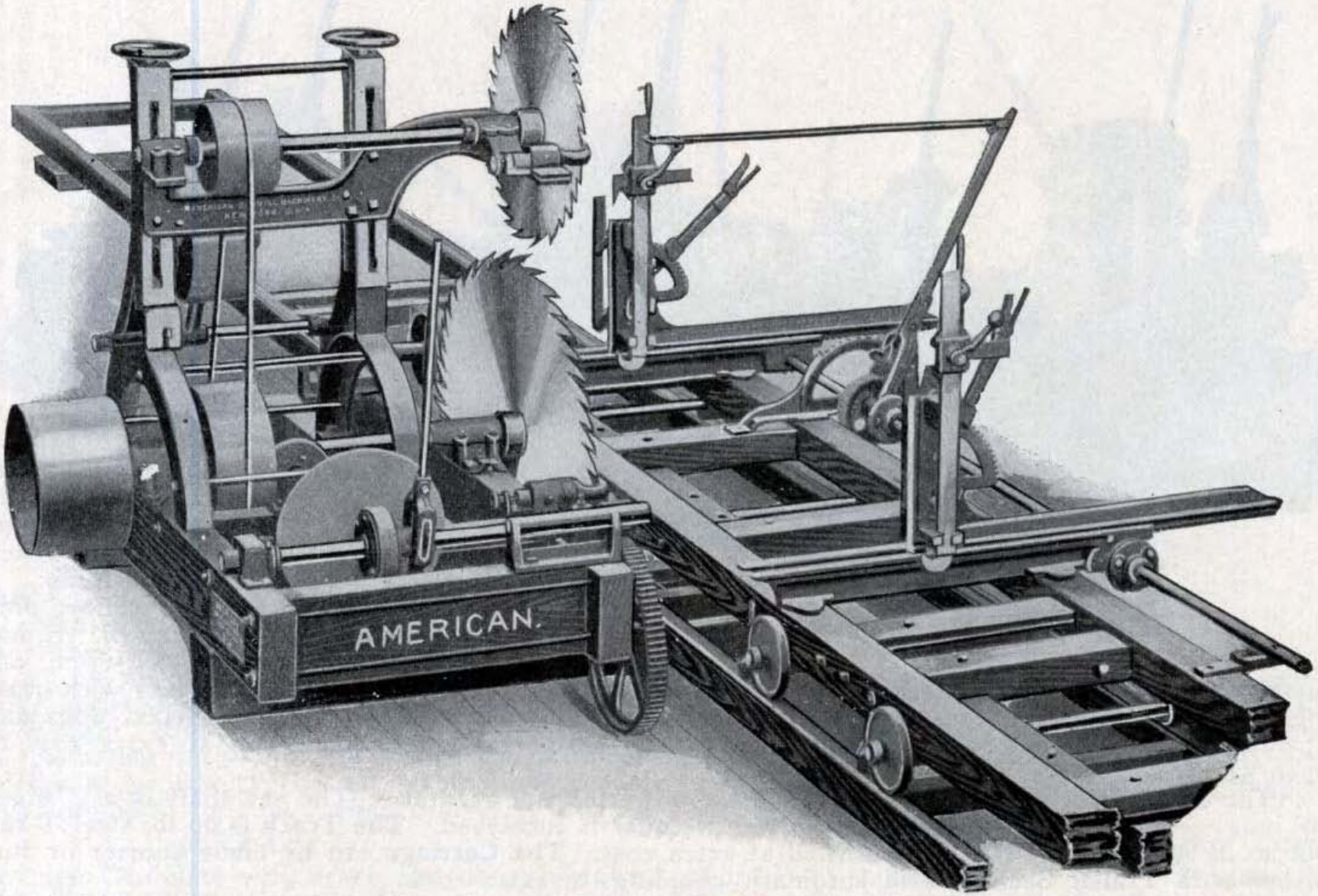
This **Carriage** is suitable for **Steam Feed** of any type or heavy friction feed and may be fitted with **off-set** for use with **Band Mills.**

It is 20′ long, 60″ wide, built of 7½″ by 7½″ yellow pine timbers, accurately framed, heavily bolted and braced. It has six trucks with 14″ wheels, 2¼″ steel axles and self-oiling adjustable boxes, and **Three Head-Blocks** weighing 1,175 lbs. each with heavy steel bases with bearings 20″ long on the timbers. The knees are cast in one piece and are fitted with "Ajax" dogs and open 48″ with 6″ independent movement. These head-blocks can be furnished at extra cost to open 54″ or 60″.

The Set Works are double acting, strong, powerful and accurate. The set shaft is 2 7/16″ steel, 20′ long. A rapid and very powerful **Power Receder** is furnished. **The Track** is 20 lb. steel T rail but 40 lb. special track can be furnished at extra cost. **The Carriage** can be made shorter or furnished with **Trailer Section** with automatic couplings at extra cost.

Carriage Complete with 20 lb. track (weight 8,500 lbs.), **$900.00;** with 40 lb. special track, **$1,032.00.** Wire Cable Drive fixtures (1,600 lbs.), **$200.00;** Extra Head-block with dog, each, **$204.00.**

American Double Saw Mills



The Top Saw Rig shown here is used on our Nos. 3, 4 and 6 Mills, either Variable Friction Feed or Belt Feed, to convert them into Double Mills. Code name **"Topaz."**

American Double Saw Mills

The cut on opposite page illustrates our **Saw Mills with Top Saw Attachment.** We are prepared to furnish this style top saw attachment with our Nos. 3, 4 and 6 Saw Mills. The top saw mandrel is driven direct from pulley on bottom mandrel.

Top mandrels have chain oiling bearings, and are made of best grade steel, with 5 inch collars. The cross rail is heavy, with reinforced extension arm and carries our No. 1 Universal saw guide.

The frame throughout is strong and rigid, securely braced at top by heavy cross girt. Both uprights and cross rails are planed to insure correct alignment.

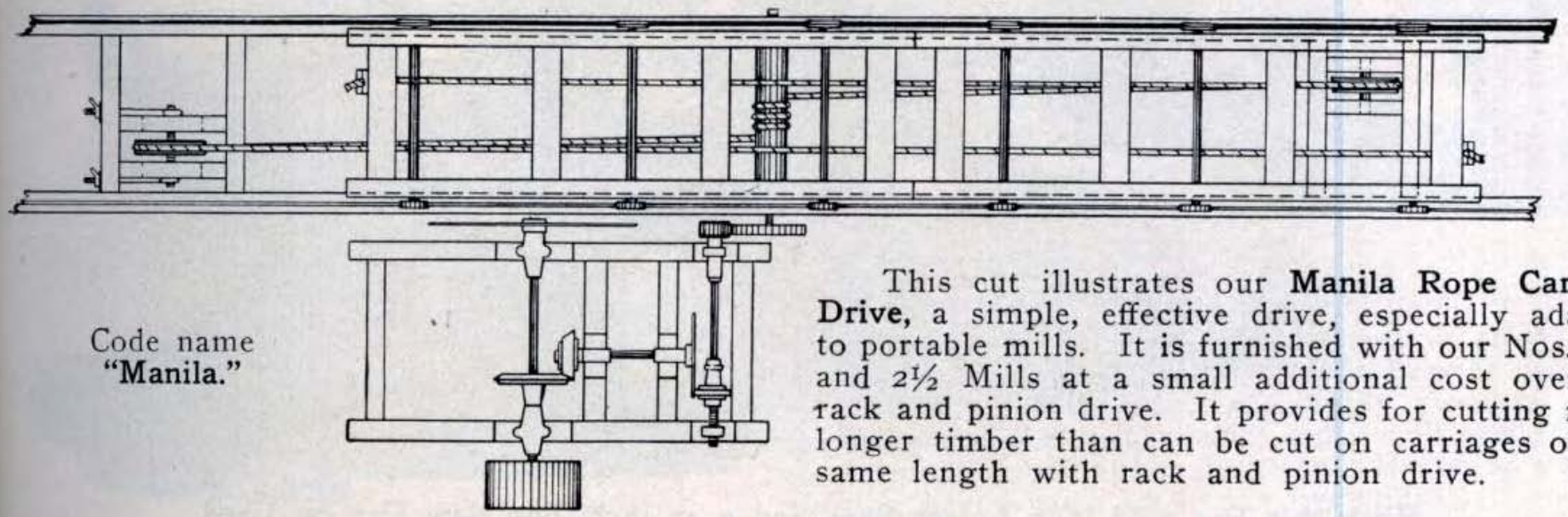
The rail is raised and lowered by means of hand wheels and screws. Bolts are provided for clamping the cross rail in proper position.

Belt tightener is arranged with adjustable weight, a hook being provided for holding it clear of the belt.

Top mandrels for Nos. 3, 4 and 6 Mills are $1\frac{15}{16}$ inch diameter and are made for standard saw with 2 inch hole and $\frac{5}{8}$ inch pin holes on 3 inch circle.

For Prices and Weights see Pages 14 and 15.

Manila Rope Carriage Drive



Code name **"Manila."**

This cut illustrates our **Manila Rope Carriage Drive,** a simple, effective drive, especially adapted to portable mills. It is furnished with our Nos. 1, 2, and $2\frac{1}{2}$ Mills at a small additional cost over the rack and pinion drive. It provides for cutting much longer timber than can be cut on carriages of the same length with rack and pinion drive.

Heavy Top Saw Rig

This cut shows our heavy **Top Saw Rig** used with our Nos. 7, 7½ and 8 Mills. (Shown here on No. 7 Husk.)

The design and distribution of metal insures great rigidity and lack of vibration.

The cross rail is very substantial, with 2 3/16 inch steel mandrel running in chain oiling bearings placed directly on top of rail so that there is no torsional strain.

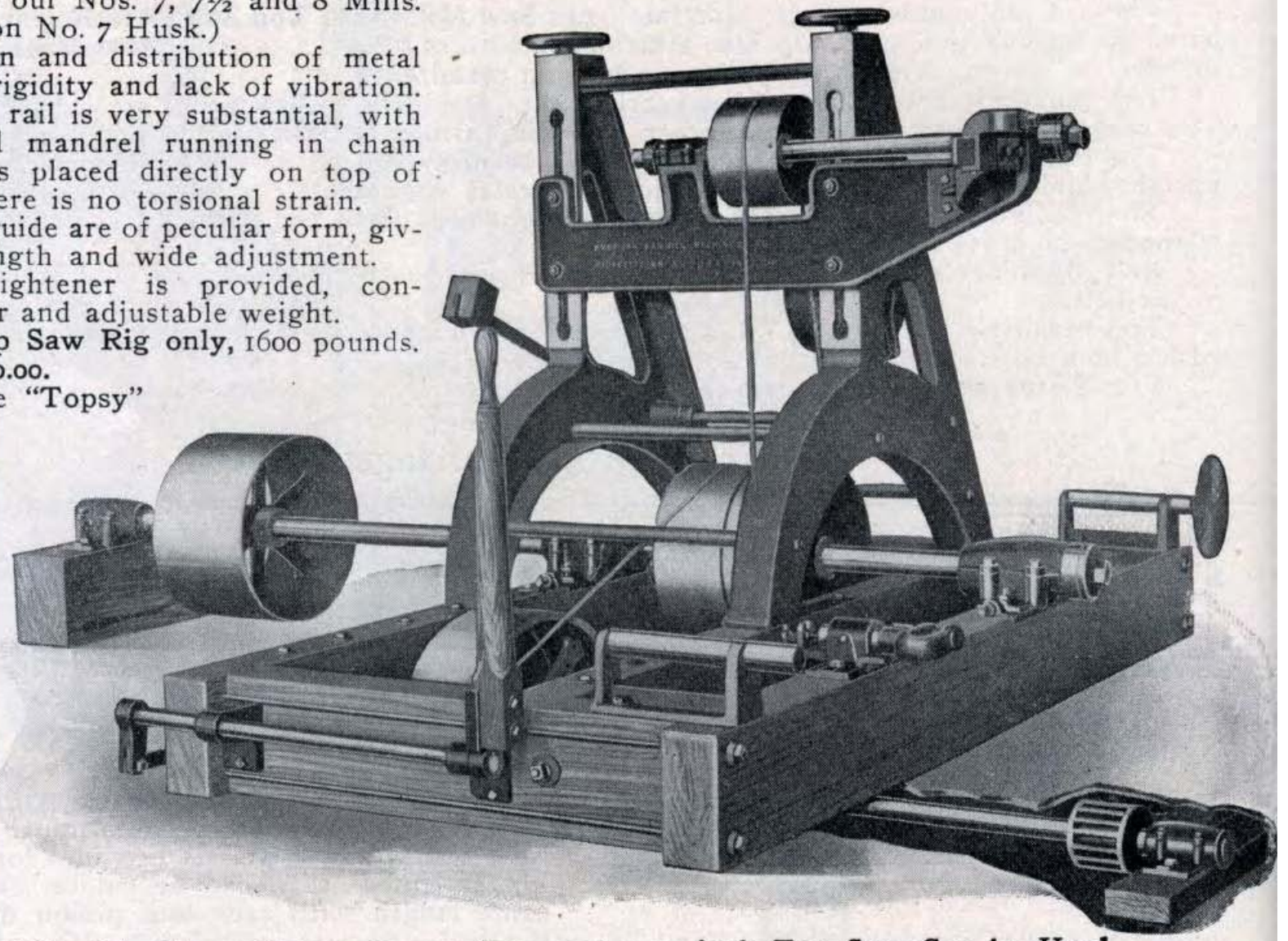
Arm and guide are of peculiar form, giving great strength and wide adjustment.

A belt tightener is provided, controlled by lever and adjustable weight.

Weight of Top Saw Rig only, 1600 pounds.

Price $250.00.

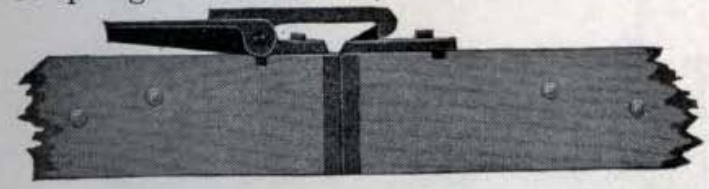
Code name "Topsy"

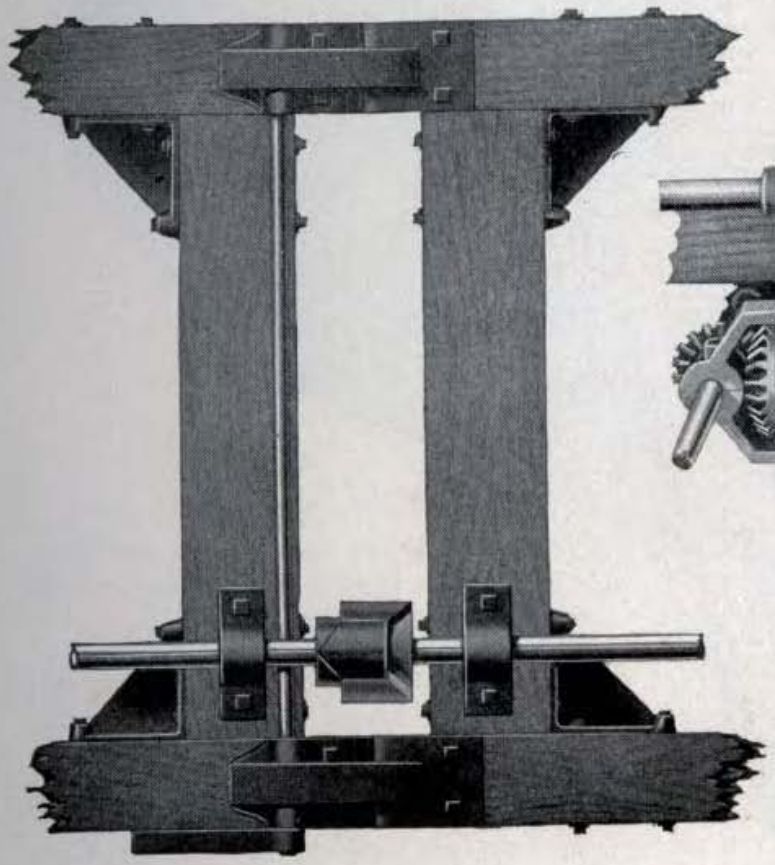


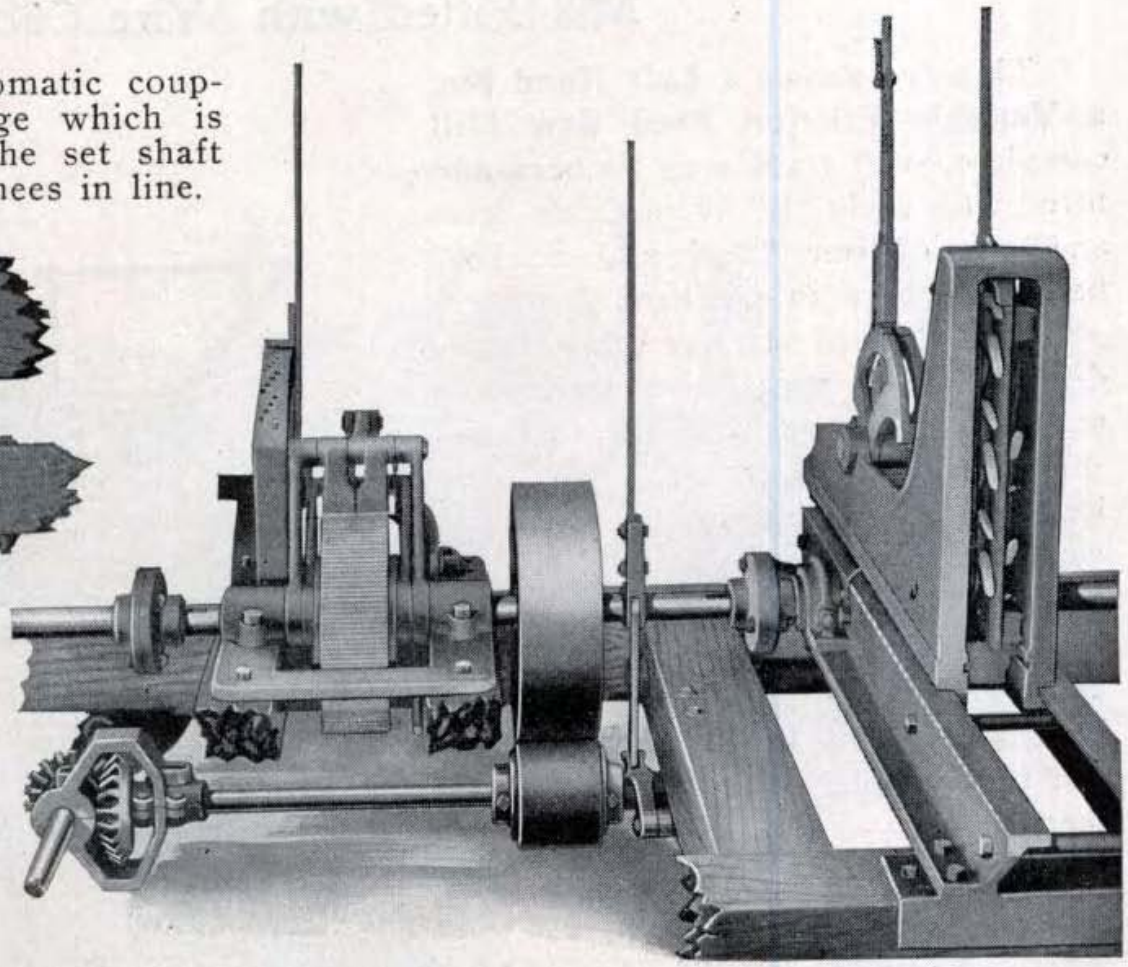
With this Rig a 66 inch Lower Saw and a 40 inch Top Saw Can be Used

Carriage Coupler

The cuts below show our automatic coupling for trailer sections of carriage which is strong, positive and convenient. The set shaft coupling automatically brings the knees in line.







Power Receder

The cut above shows the carriage cut away showing the Power Receder used on our heavier carriages. It is strongly built and exceedingly powerful. The setter operates it by the lever and it will easily handle the largest logs in either direction. It can be used for shoving heavy cants on to the live rolls.

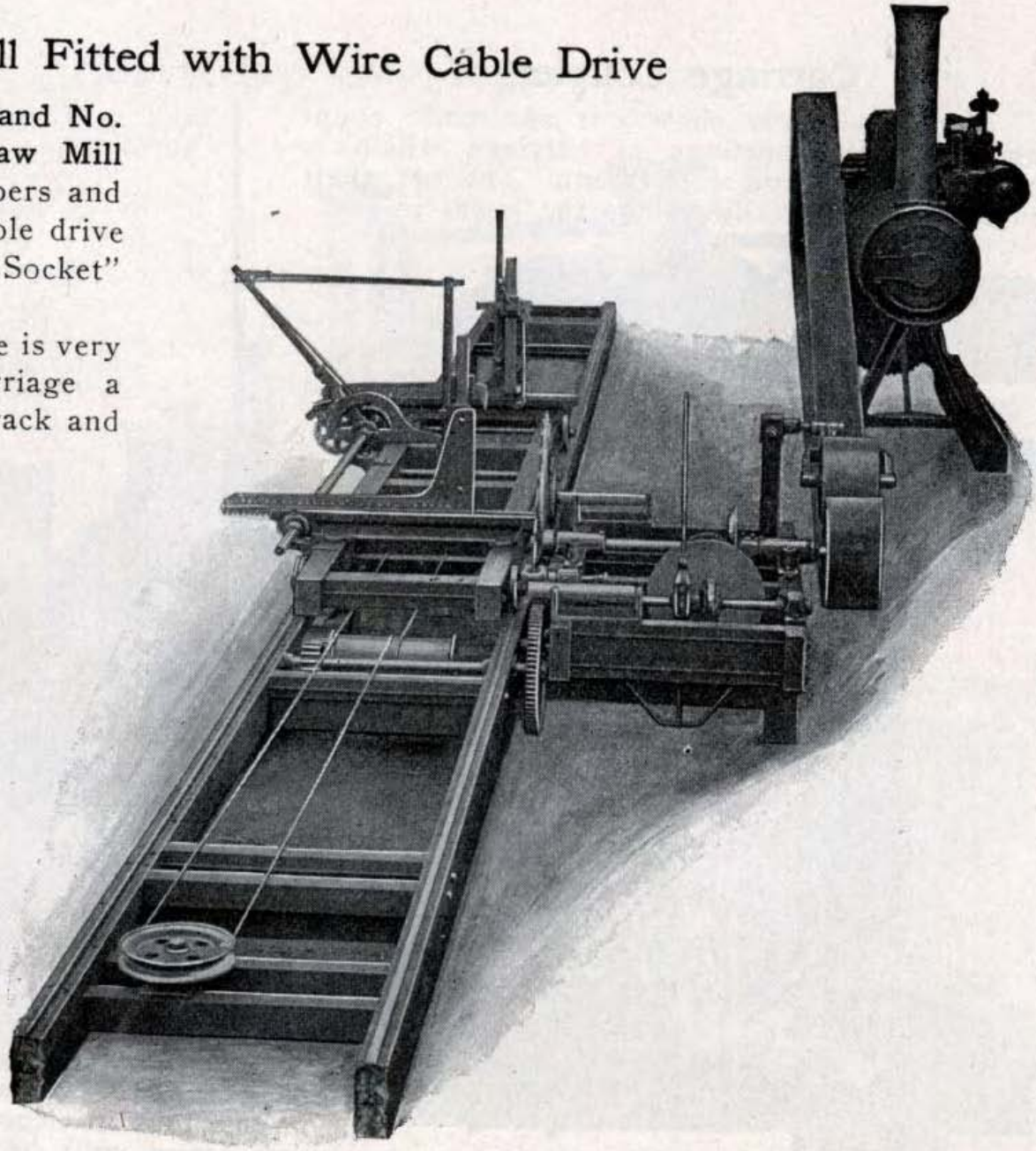
Mill Fitted with Wire Cable Drive

This cut shows a **Left Hand No. 2 Variable Friction Feed Saw Mill** complete, with track way timbers and fitted with style "B" Wire Cable drive and one of our "Ball and Socket" belt tighteners in position.

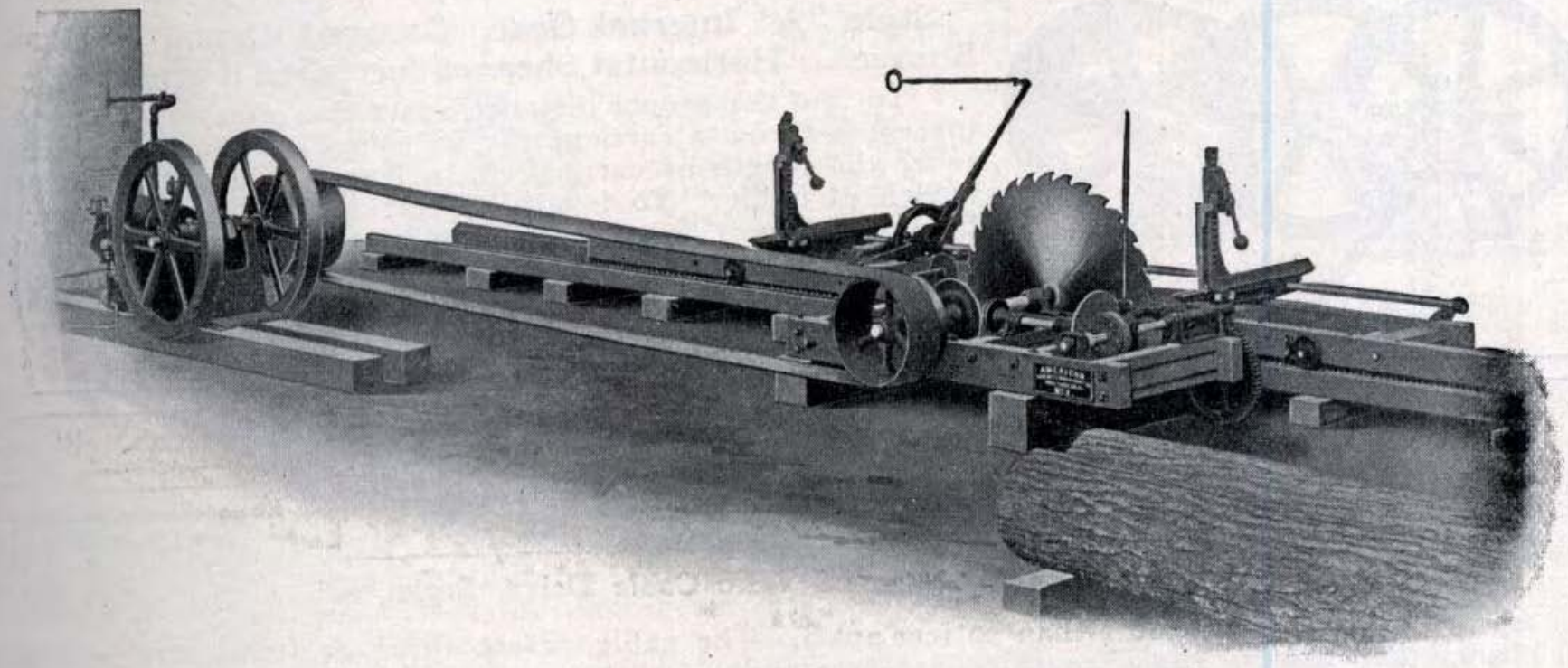
This style of carriage drive is very desirable and gives the carriage a much longer travel than the rack and pinion drive so that longer timber can be cut with same length of carriage.

Any of our "Variable Friction Feed" Mills from Nos. 1 to 4 can be equipped in this manner.

All "Hercules" Belt Feed Mills are regularly equipped with this style of **Wire Cable Drive** unless otherwise **ordered.**



Gasoline Engine and No. 1 Mill

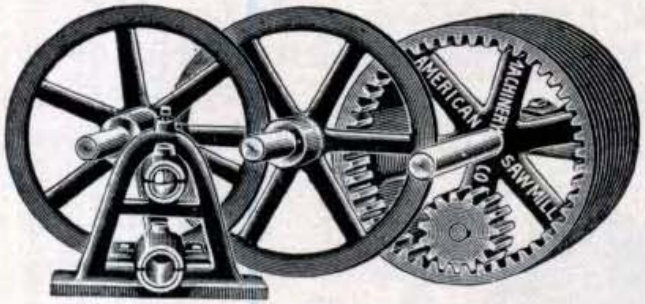


We have for several years made a specialty of furnishing saw mills for use with **Gasoline Engines.** Several of these mills are now operated within a few miles of our factory and **hundreds** are in successful operation throughout the United States, Canada, Mexico and Cuba.

Although our No. 1 Mills are being successfully operated with 6 H. P. gasoline engine, we recommend 8 H. P. and up as we have found from experience that a gasoline engine will cut only about two-thirds as much lumber as a steam engine of same rated horse-power.

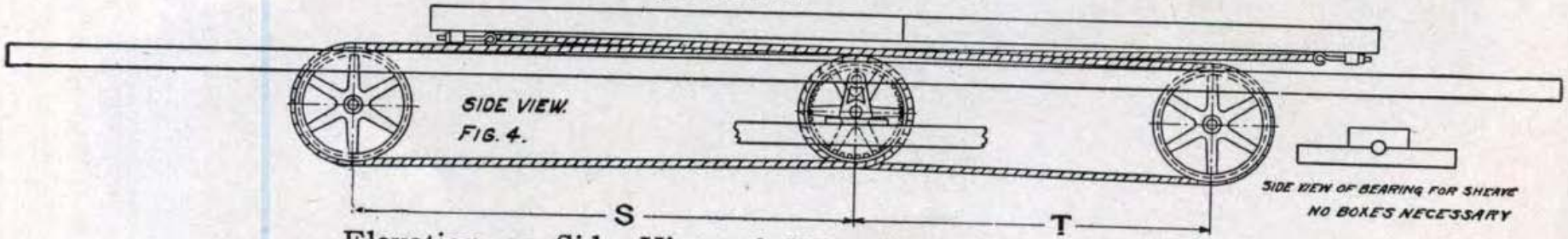
The advantage of a gasoline engine is that it is lighter, easier to set up and move, requires less help, and requires very little water, thus making a most economical and convenient saw mill outfit. Our Nos. 2, 2½ and 3 Saw Mills can also be operated with gasoline engines.

Wire Cable Drive for Saw Mill Carriages



Style "A" Internal Gear, Grooved Drum, Vertical Sheaves. Horizontal Sheaves furnished if preferred.

To find the proper distance apart that sheaves should be placed to throw a carriage the full length of track: Subtract twice the length of carriage from length of track. To find length of Cable: To length of carriage add twice distance between sheaves, five times circumference of drum and about 10 feet for connections. Four times around is sufficient for large drums.



Elevation or Side View of Wire Cable Drive, Style "A"

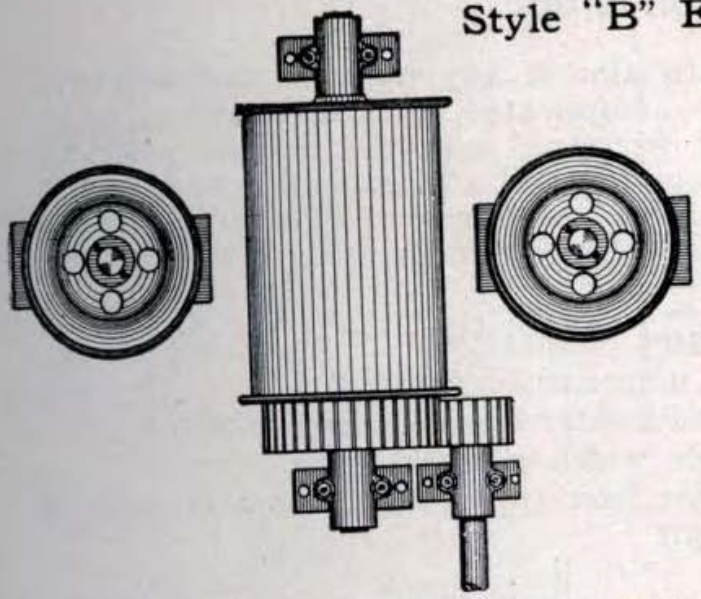
Sheaves should not be less than 20 feet apart. The cable passes three or four times around the drum, then around the sheaves to opposite ends of the carriage, thus giving to the carriage a travel of more than double its length and permitting the use of any length of carriage and track within the winding capacity of the drum. The sheaves revolve on the axles, hence metal boxes are not required.

Style "A"

SIZE (inches)	12	18	24	30
Dimensions of Drum	12"x11"	18"x14"	24"x12"	30"x12"
Diameter of Gear	11"	16"	21"	27"
Diameter of Pinion	4"	5"	7"	7"
Diameter of Sheaves	12"	18"	24"	30"
Weight complete without Cable	150	350	500	1600
Price Complete without Cable	**$36.00**	**$70.00**	**$100.00**	**$200.00**
Wire Cable per foot	3/8" **.12**	1/2" **.14**	5/8" **.18**	3/4" **.22**

Wire Cable Drive for Saw Mill Carriages

Style "B" External Gear. Plain Drum.



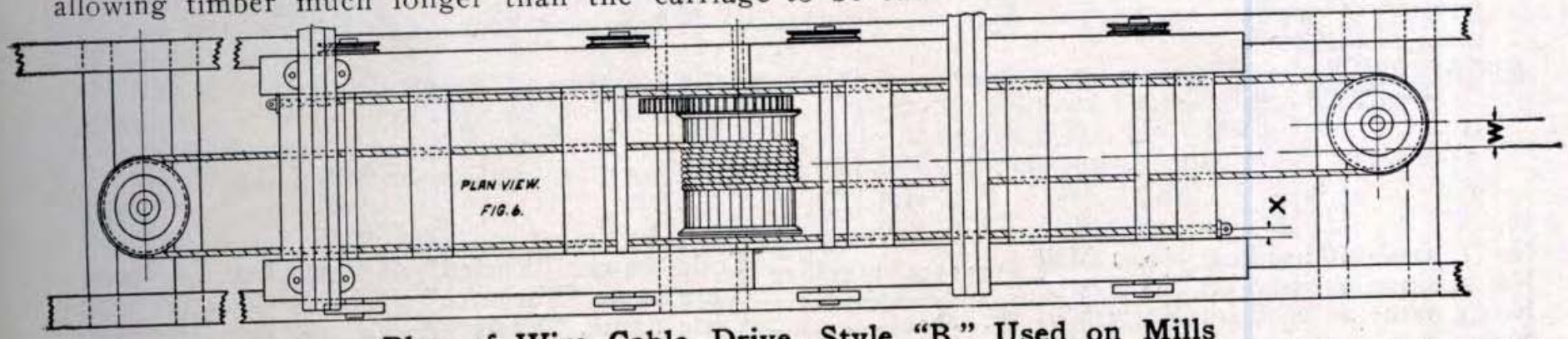
SIZE (inches)	11	14
Dimensions of Drum.....	11"x 14"	14"x 20"
Used on Mills Nos.....	1 and 2	3 and 4
Diameter of Gear.....	10"	12"
Diameter of Pinion.....	4"	4" and 6"
Diameter of Sheaves.....	10"	12"
Weight complete without Cable.....	175	300
Price Complete without Cable	**$36.00**	**$70.00**
Wire Cable per foot.....	3/8" .12	1/2" .14

The accompanying cuts show our Wire Cable Drives which we recommend for all large and medium size saw mills.

The carriage can be stopped and reversed quickly and easily without jar and consequent danger to other parts of the mill. There is thus a quiet, steady motion imparted to the carriage, besides great saving in time which will soon pay for the extra cost of the rig.

There is also the advantage of running the carriage out any desired distance forward or back to deliver lumber or receive logs.

A shorter carriage can also be used, saving the extra weight and strain on the power, and allowing timber much longer than the carriage to be cut.



Plan of Wire Cable Drive, Style "B," Used on Mills

Nos. 1, 2, 2½, 3 and 4 when fitted with wire cable drive. Sheaves should not be less than 20 feet apart.

American Variable Friction Feed

The American Variable Friction Feed can be attached to almost any make of mill and will almost double the capacity of a belt feed mill. There are no complicated parts to wear out or to give trouble. A **Complete Feed** consists of the two sets of frictions, with the necessary shafts, boxes, collars, sawyer's lever and attachments, also the feed pinion and a large feed gear of a size suitable for the mill to which the feed is to be attached. Shafts are furnished of required length according to order. Feeds are made in four standard sizes, suitable for mills using 4 to 40 H. P.

When ordering, give the following measurements:

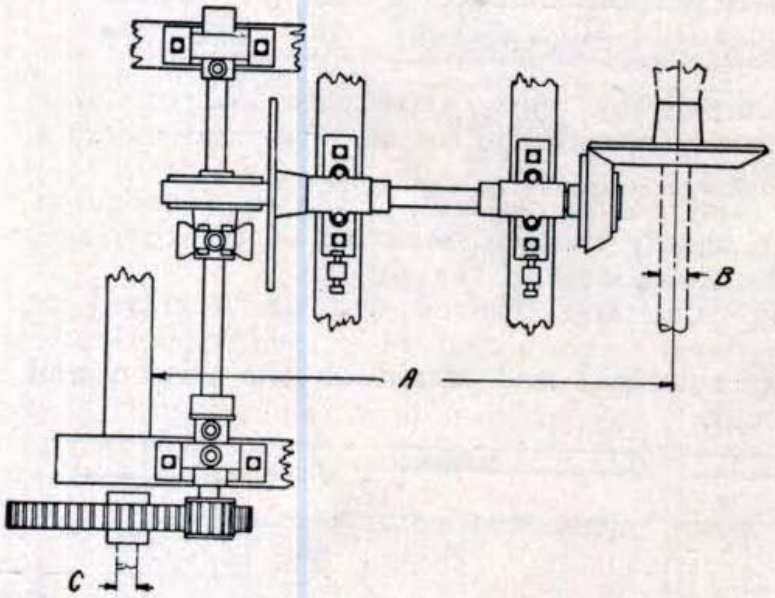
A. Distance from inside front end of husk frame to center of mandrel.

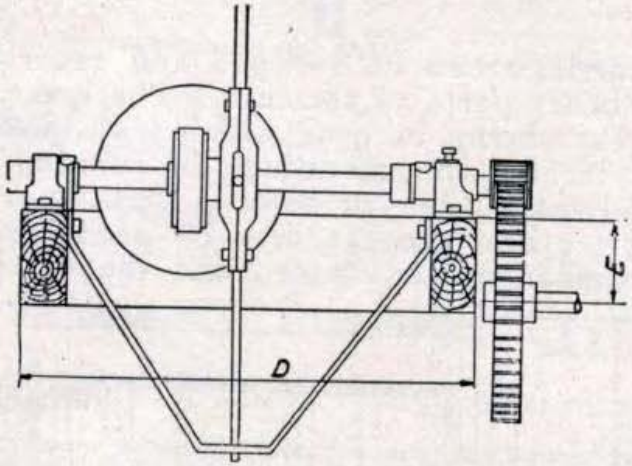
B. Exact diameter of mandrel.

C. Exact diameter of rack pinion shaft.

D. Outside width of husk frame.

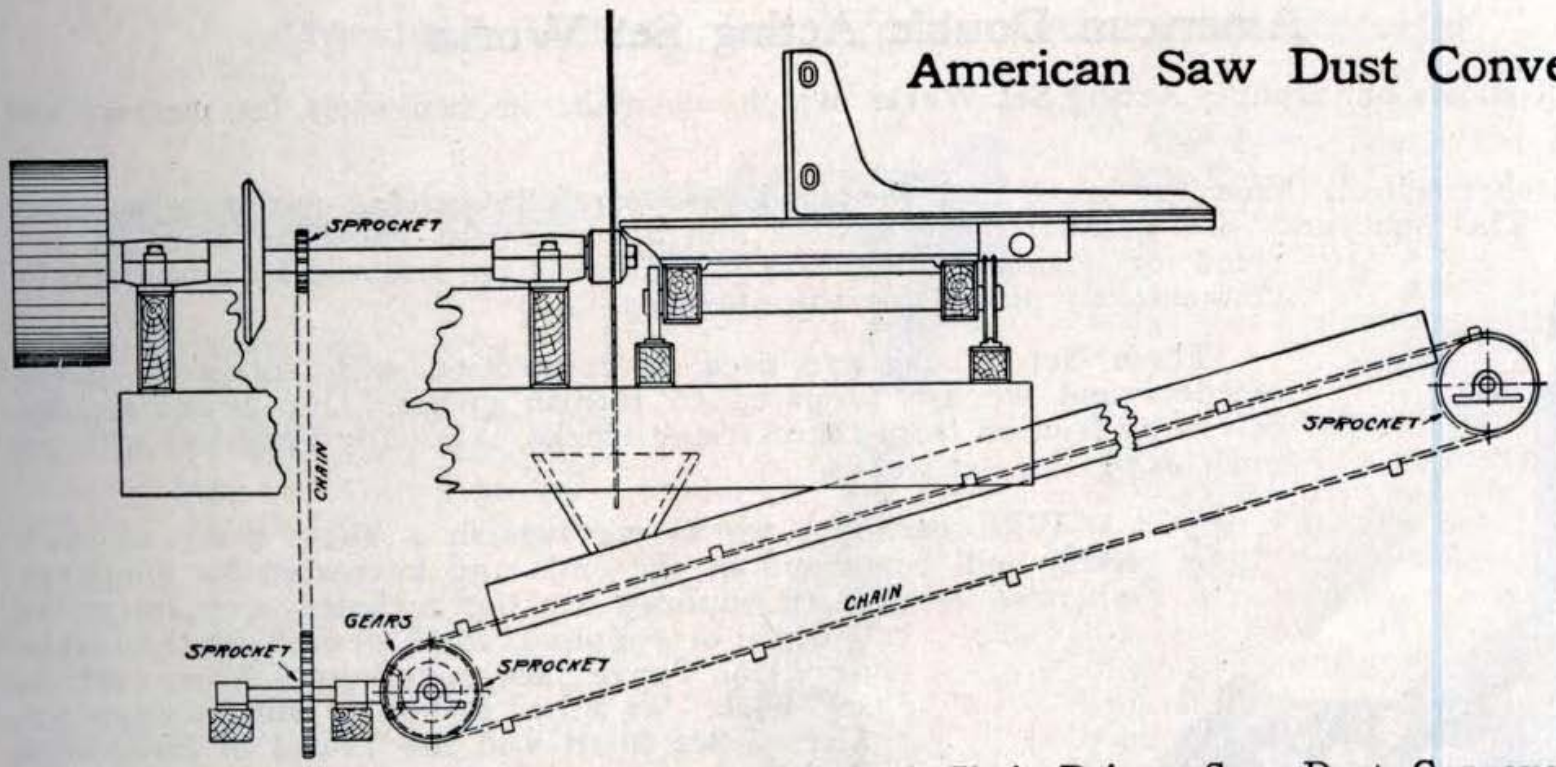
E. Distance from top of husk frame to center of rack pinion shaft.





Size		Shipping Weight	Price
No. 1, same as used on No. 1 Mill	Code name, **"Varied"**	300 lbs.	**$50.00**
No. 2, same as used on No. 2 Mill	Code name **"Variance"**	425 lbs.	**60.00**
No. 3, same as used on No. 3 Mill	Code name, **"Variety"**	460 lbs.	**65.00**
No. 4, same as used on No. 4 Mill	Code name, **"Various"**	550 lbs.	**80.00**

American Saw Dust Conveyors



The accompanying cut illustrates our **Standard Chain-Driven Saw Dust Conveyors.** These conveyors are not affected by the weather and can be used on mills operating in the open.

Split sprockets for mandrels are furnished when ordered to attach to other makes of mills. Carrier can be driven in either direction for conveying through trough as shown, or dragging underneath without trough.

The **Standard 25 Foot Conveyors** consist of the necessary sprocket wheels, bevel gears, sprocket and gear shafts, boxes, collars, 50 feet of carrier chain with conveyor attachments and 10 feet of drive chain. Hopper, trough and other wood parts are not included in price.

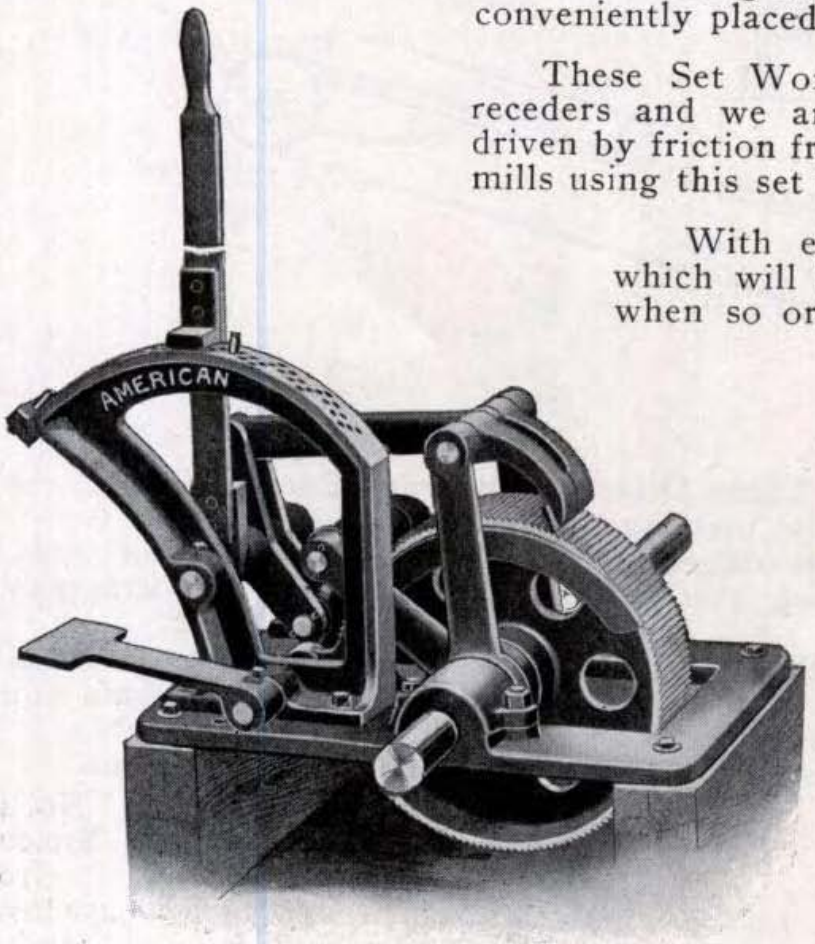
Our No. 4 Carrier is equipped with roller drive chain and take-up boxes suitable for long runs.

	No. 1	No. 2	No. 3	No. 4
Price of 25 Foot Conveyors as described above.....	**$30.00**	**$35.00**	**$45.00**	**$70.00**
Price per Foot Extension	.35	.45	.60	.70
Approximate Weight	135 lbs.	150 lbs.	175 lbs.	250 lbs.
Longest Run Recommended	40 ft.	60 ft.	80 ft.	150 ft.
Used with our Mills Nos.	1 & 2	3 & 4	6 & 7	7½ & 8

American Double Acting Set Works

This cut shows our **Double Acting Set Works** which we make in two sizes for medium and large mills.

The ratchet wheels have cut teeth and the pawls are carefully ground to insure accuracy in setting. The quadrants are graduated by eighths and a convenient adjusting screw is provided for setting full or scant. The pawls are released by a foot treadle conveniently placed for the operator.



These Set Works are used in connection with spring or power receders and we are prepared to furnish either. Our power receder, driven by friction from the carriage trucks, is usually furnished with our mills using this set works.

With each set works we furnish a short piece of shaft which will be turned at the ends and keyseated for couplings when so ordered. Couplings are not included with set works but will be supplied, when desired, at the regular price for flange face couplings. When ordering set works for other makes of mills **always** give **Size of Set Shaft** and the **Travel** of **Head-block Knee** to one turn of set shaft.

	No. 1	**No. 2**
Weight Complete	165 lbs.	500 lbs.
Size of ratchet wheel	12″ x 3″	18″ x 5″
Largest Set Shaft that can be used	2¼″	2¾″
Maximum Set with double throw of lever	2½″	2½″
Regularly furnished on our Mills Nos.	6	7, 7½, 8
Price with short piece of set Shaft	**$75.00**	**$125.00**
Code name	**"Seton"**	**"Setem"**

American "Ideal" Set Works with Quick Receder

In ordering set works for other makes of mills, give size of set shaft, width of key seat in shaft and the travel of head-block knee to each turn of set shaft.

No. 1 set works made for shafts up to 2 inches.

No. 2 for shafts up to 2¼ inches.

Our **New "Ideal" Set Works with Quick Receder** is the most desirable improvement put on portable saw mills in recent years. A sawyer can **cut 50 per cent. more** with this set works on his carriage than without it.

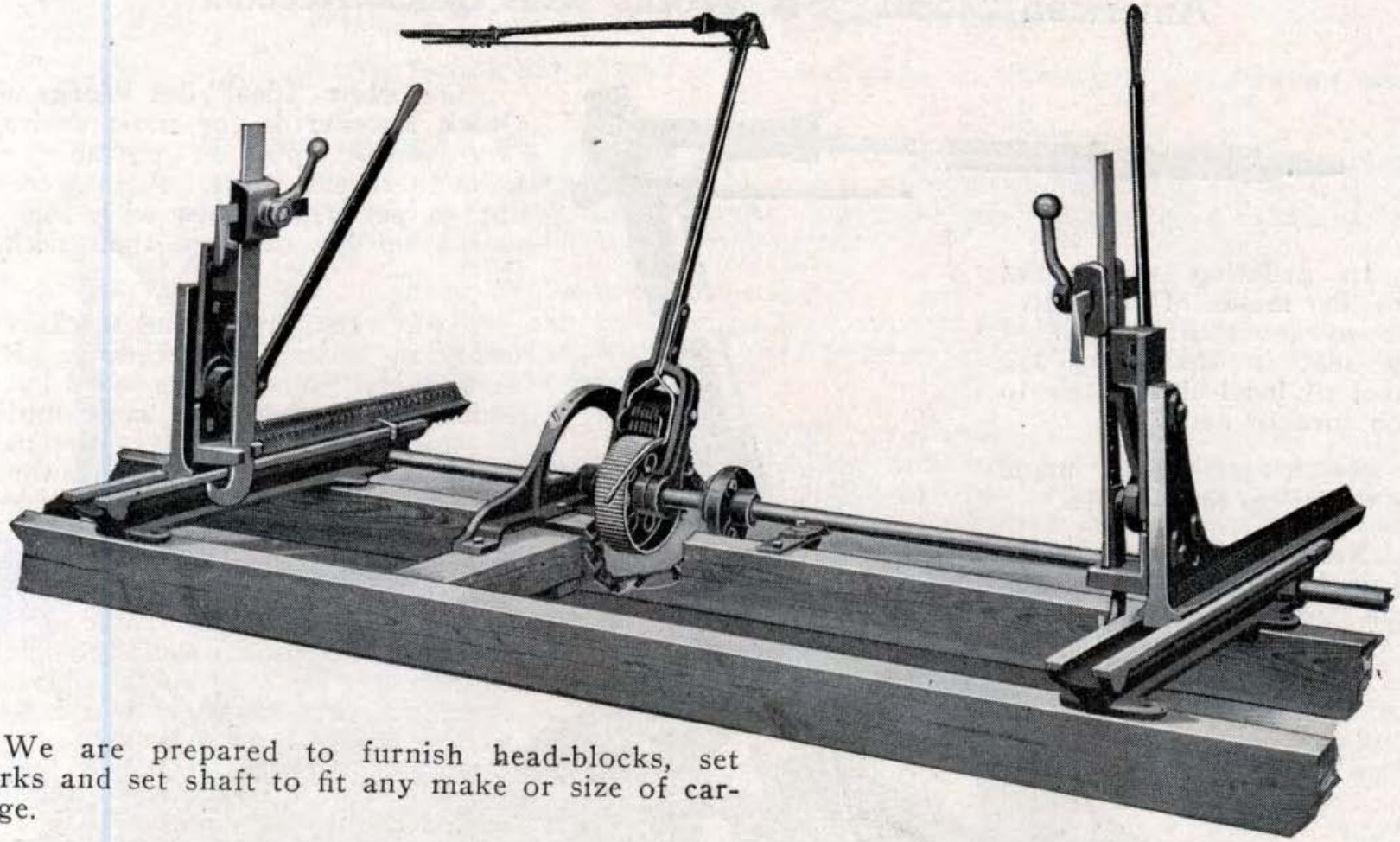
It is very simple and works very easily in setting or receding. Both setting and receding are done by the same lever and by the same motion. A straight pull disengages the pawls from the ratchet wheel and throws the rear pawl into the receding gear; then, by pulling the lever as in setting, the head-block knees are thrown back about three times as rapidly as they set forward, and three or four pulls of the lever are usually sufficient to recede the head-blocks. Experienced sawyers say it is worth $50.00 to any mill.

The No. 1 is furnished regularly with Nos. 1, 2, 2½ and 3 Mills. The No. 2 with our No. 4 Mill.

No. 1, shipping weight, 175 lbs. **Price, $30.** Code name, **"Setter."**

No. 2, shipping weight, 235 lbs. **Price, $40.** Code name, **"Settle."**

Head Blocks in Sets

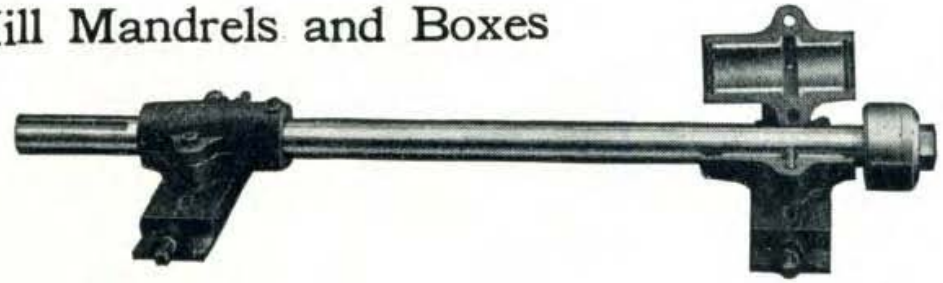


We are prepared to furnish head-blocks, set works and set shaft to fit any make or size of carriage.

Size	*No. 1	No. 2	No. 3	No. 4	No. 5
Outside Width of Carriage the Blocks will fit	26″	30″	36″	40″	44″
Inside Width of Carriage the Blocks will fit	19″	23″	27″	31″	33″
Extreme Opening of Head-block	34″	38″	44″	48″	52″
Diameter of Set Shaft	1 7-16″	1 11-16″	1 15-16″	1 15-16″	2 3-16″
Length of Set Shaft	14′	16′	20′	20′	20′
Weight Complete	500 lbs.	750 lbs.	975 lbs.	1050 lbs.	1275 lbs.
Weight of Additional Blocks each	140 lbs.	230 lbs.	310 lbs.	335 lbs.	400 lbs.
Price, Complete, for set of two as shown	**$85.00**	**$110.00**	**$130.00**	**$150.00**	**$180.00**
Price, Additional Block and Dog	**24.00**	**36.00**	**42.00**	**48.00**	**60.00**

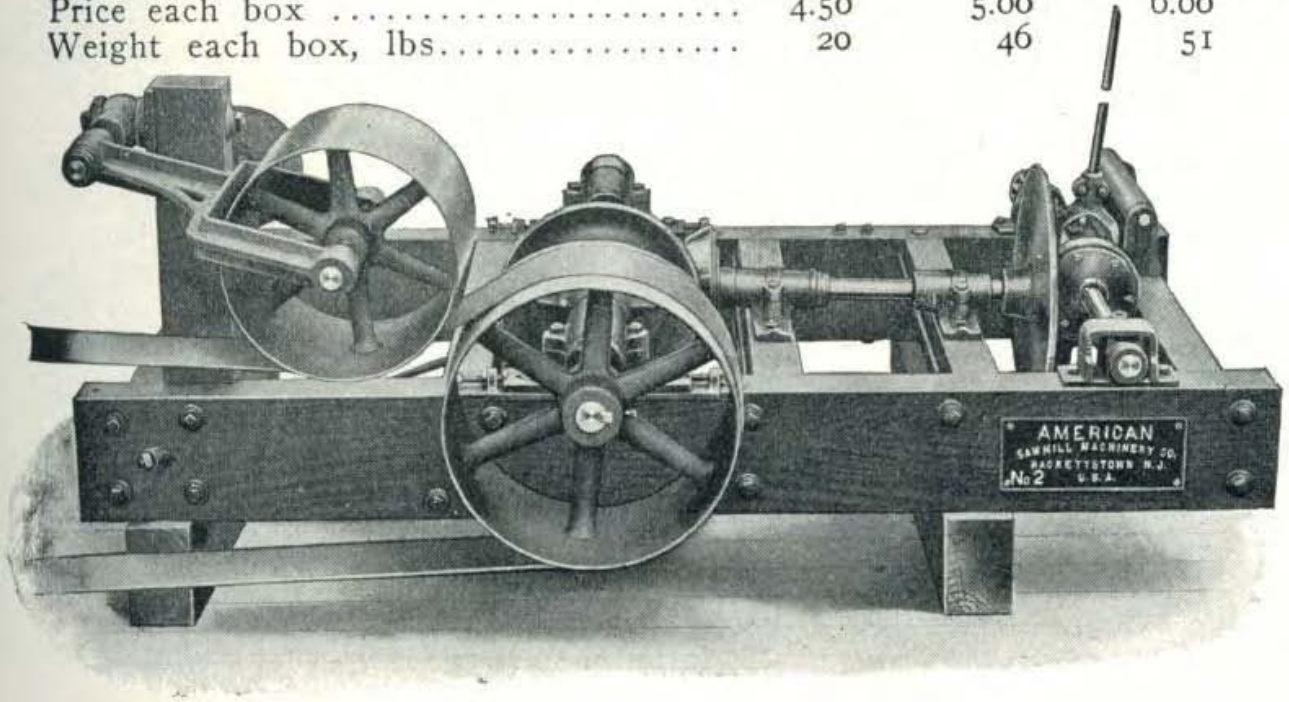
*Dogs on No. 1 set are same as shown on No. 1 Mill page 16.

Saw Mill Mandrels and Boxes



Our Standard **Saw Mill Mandrels** are made of best grade steel with solid steel collars.

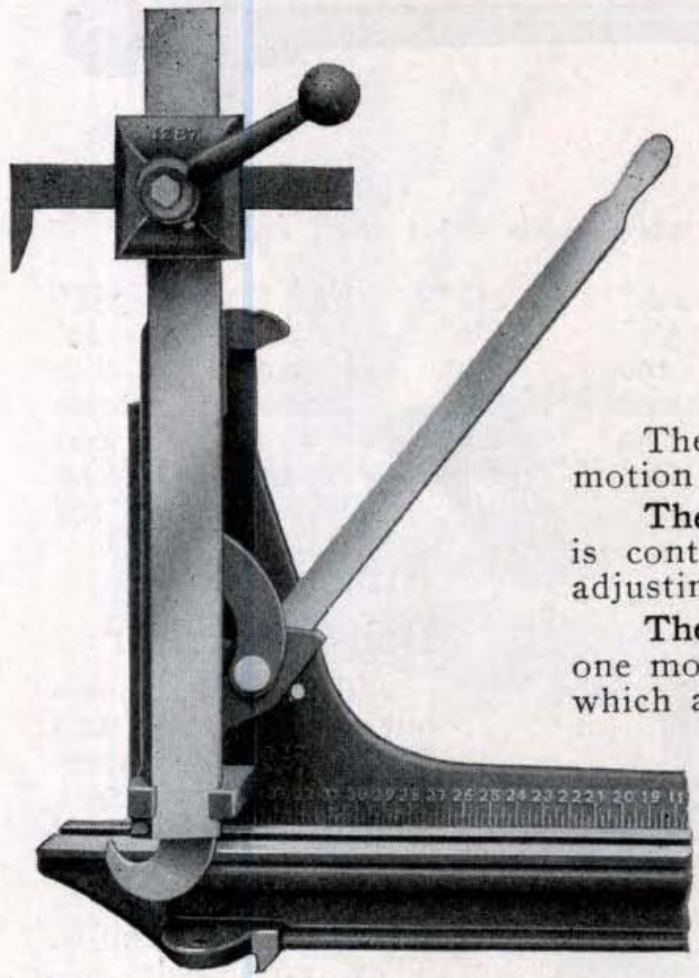
Diameter	$2\frac{3}{16}$"	$2\frac{5}{16}$"	$2\frac{7}{16}$"	$2\frac{15}{16}$"	$3\frac{7}{16}$"	$3\frac{15}{16}$"
Length	4′4″	5′	5′6″	5′6″	10′	10′
Weight without boxes, lbs	68	84	100	145	340	440
Price without boxes	**$15.00**	**$18.00**	**$20.00**	**$30.00**	**$60.00**	**$80.00**
Price each extra foot	1.30	1.40	1.60	2.30	3.50	4.60
Price each box	4.50	5.00	6.00	8.50	16.00	18.00
Weight each box, lbs	20	46	51	79	100	124



American Belt Tightener

This cut shows our new **Ball and Socket Belt Tightener,** fitted to a husk frame in the usual manner. We furnish these belt tighteners with all our mills. They are easily adjusted and the belt can be guided perfectly with them. **For Prices see Page 14.** Code name **"Belate."**

The American "Giant" Duplex Mill Dog



In our new **"Giant" Saw Mill Dog** we believe we are offering the saw mill man one of the **Strongest, Simplest, Quickest and Most Effective Dogs** that has yet been produced—one that will fully meet every demand made upon it.

The Main Frame is one piece, bolted to the head-block knee.

The Slide Bar is secured to the main frame, has an up and down movement and carries the top dog socket, and is moved by the operating lever.

The Top Dog Socket is adjustable to any desired position on the slide bar and carries the dog bit which is adjustable in or out.

The socket and bit are readily secured in any position in one motion by a heavy screw with ball lever handle.

The Lower Dog moves independently of the main slide bar but is controlled by same operating lever. It is automatic and self-adjusting.

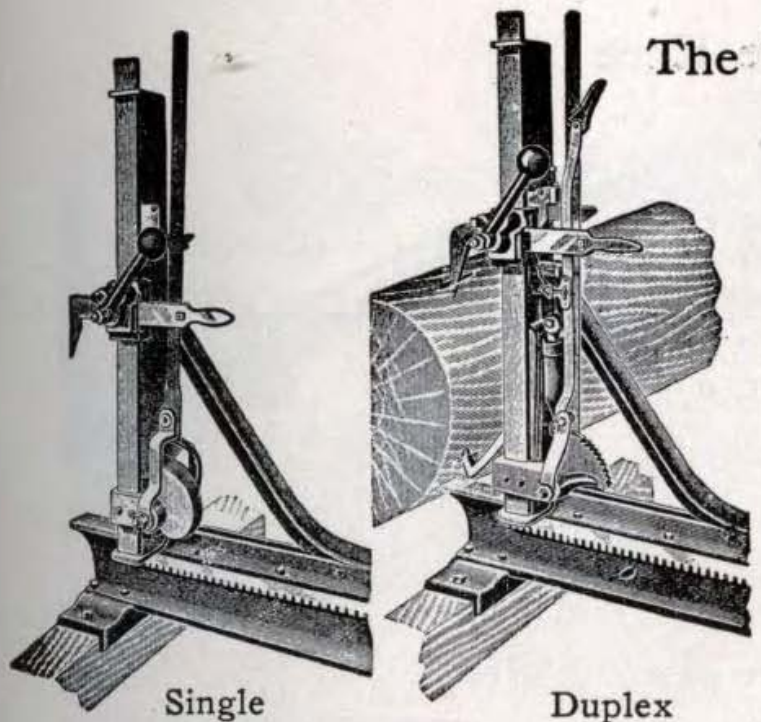
The Operating Lever moves the top and bottom dogs together by one motion. When set they are held firmly in position by a ratchet which acts automatically by the movement of the operating lever.

In Operating the top dog socket is lowered until the bit touches the log and is fastened to the slide bar by the screw lever. Then by pressing down the operating lever the top dog is forced into the timber and the lower dog rises automatically by same motion.

Can be used on any make of mill and is easily attached by simply bolting the main frame to the side of the head-block knee. Made in two sizes suitable for any size mill.

Price No. 1 each $12.00; Weight 70 lbs.
Code name **"Dogit."**

Price No. 2 each $15.00; Weight 90 lbs.
Code name **"Dogged."**



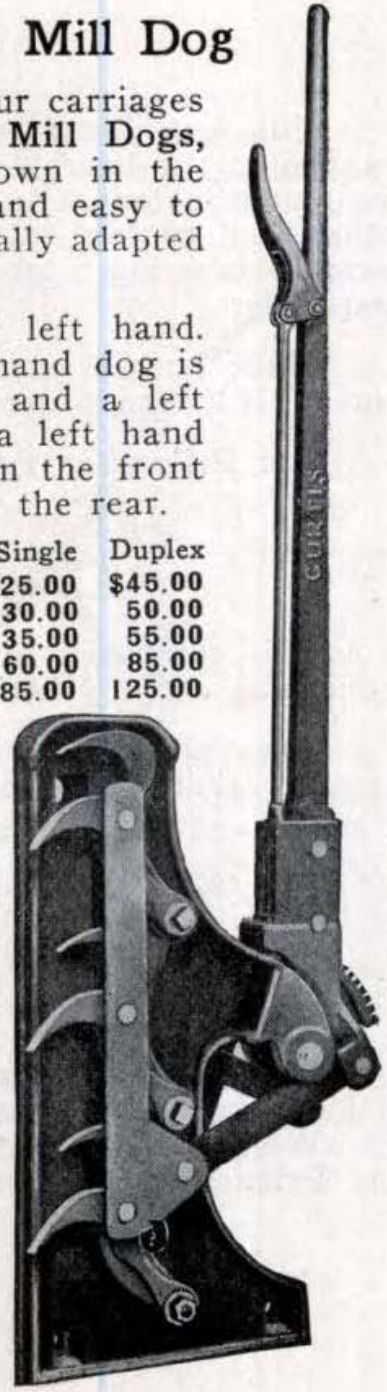
Single Duplex

The "Knight" New Ideal Saw Mill Dog

When desired, we can fit our carriages with the **"Knight" Ideal Saw Mill Dogs,** either single or duplex as shown in the cuts. These are very strong, and easy to adjust. The **"Duplex"** are specially adapted to quarter sawing.

They are made right and left hand. For a right hand mill a right hand dog is used on the front head-block and a left hand on the rear block. On a left hand mill a left hand dog is used on the front head-block and a right hand on the rear.

PRICES PER PAIR	Single	Duplex
No. 1 For Pony Mills	$25.00	$45.00
No. 2 For Medium Mills	30.00	50.00
No. 3 For Heavy Mills	35.00	55.00
No. 3 Special for Steam Feed	60.00	85.00
No. 4 Extra Heavy for Steam Feed	85.00	125.00



The American "Ajax" Double Tooth Mill Dog

The American "Ajax" Double Tooth Mill Dog is the most desirable dog for heavy mills. It has bits on both sides of the frame. On one side they work down as shown, on the other they move up; hence they will firmly grip a log of any size and hold it securely and will not turn it or push it away from the knees.

The Main Frame is cast steel, the bits are drop forged tool steel and sharpened to a point. All other parts are steel, the pins are large and all wearing surfaces are ample. The action of the levers is direct and very powerful. The bolt holes are in the same positions as on other dogs of this type and they can be fitted to almost any heavy head-block

They are made right and left hand and regularly furnished with our Nos. 7½ and 8 Carriages.

Weight complete as shown, 75 lbs.

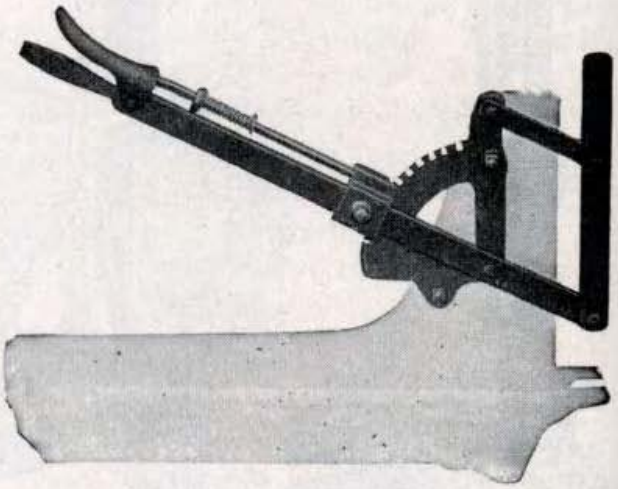
Price Complete, each, $60.00. Code name, **"Dogmatic."**

Parallel Bar or False Knee

This cut illustrates our **Parallel Bar** or **False Knee** attached to the head-block knee. This is a valuable and convenient attachment to any mill and is used to throw out the small end of log, to steady light or crooked logs, and for sawing tapering timber. It is easy to operate and works perfectly.

Made in two sizes, the smaller for use on our Nos. 1, 2 and 3 Mills; the larger for use on Nos. 4, 6 and 7 Mills.

For Prices see Page 14. Code name, **"Parable."**



American "Drop Dog"

This cut shows our new **Drop Dog** with which we are now equipping our log beam carriages (see pages 28 and 29).

They are very handy and are operated with such ease and rapidity that many sawyers prefer them to any other type of dog.

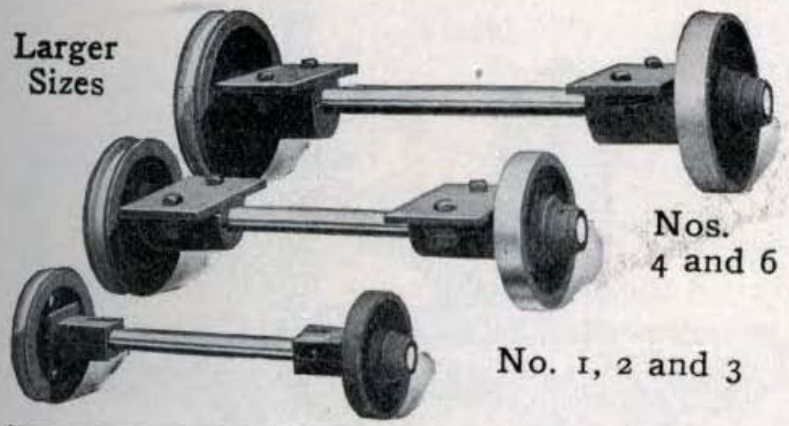
We can furnish them for use on any make of **Log Beam** mill.

The standard is polished steel $1\frac{7}{16}$ inch diameter and 28 inches high.

Distance from standard to bit on long end, 10 inches.
Distance from standard to bit on short end, 6 inches.
Weight of dog, 47 lbs.
Price Complete, each, $8.00. Code name, **"Dogma."**

Drop Dog

Carriage Trucks

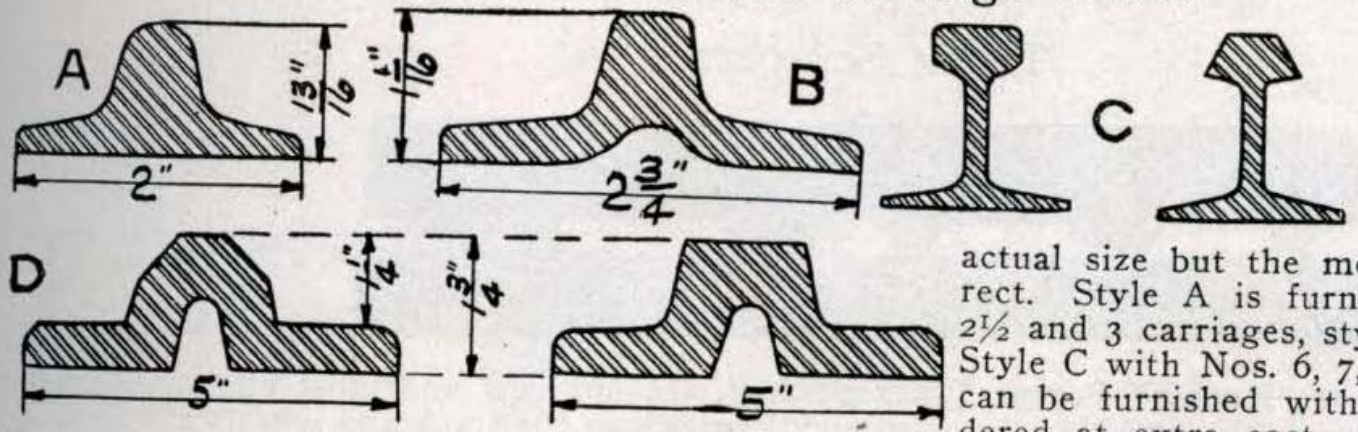


Our **Carriage Trucks** are made in eight regular sizes with polished steel axles. The boxes of the Nos. 1, 2, and 3 fit in the carriage timbers and have the top half babbitted and the lower half forming a chamber for oil and waste. Boxes for Nos. 4 to 8 are made to fit under the carriage timbers and have large oil and waste pockets. The Nos. 7, 7½ and 8 are adjustable.

Code name, **"Truckage."** (Give number.)

Number or size	1	2	3	4	6	7	7½	8
Size of Axles, inches....	1⅛	1¼	1 7-16	1 11-16	1 11-16	1 11-16	1 15-16	2 3-16
Size of Wheels, inches..	6	7	8	10	10	12	12	14
Weight with Boxes, lbs...	28	35	60	110	120	140	167	270
Price with Boxes, each.....	**$5.00**	**$7.00**	**$9.00**	**$12.00**	**$14.00**	**$17.00**	**$19.00**	**$30.00**

Rolled Steel Carriage Track



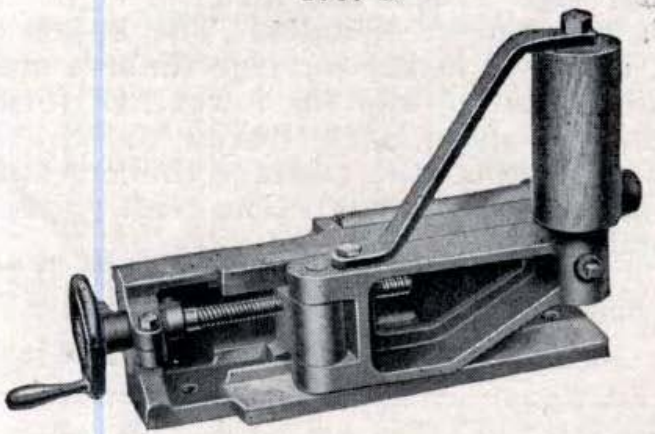
Style	A	B	C	D
Weight per yard, lbs.	8	13	16 and 20	40
Price per foot	.20	.30	.70 .90	$2.00

The cuts show the style or shape of the **Rolled Steel Track** which we furnish with our different size mills. The cuts are about one fourth actual size but the measurements are correct. Style A is furnished with No. 1, 2, 2½ and 3 carriages, style B with No. 4 and Style C with Nos. 6, 7, 7½ and 8. Style D can be furnished with No. 8 when so ordered at extra cost. Styles C and D are planed.

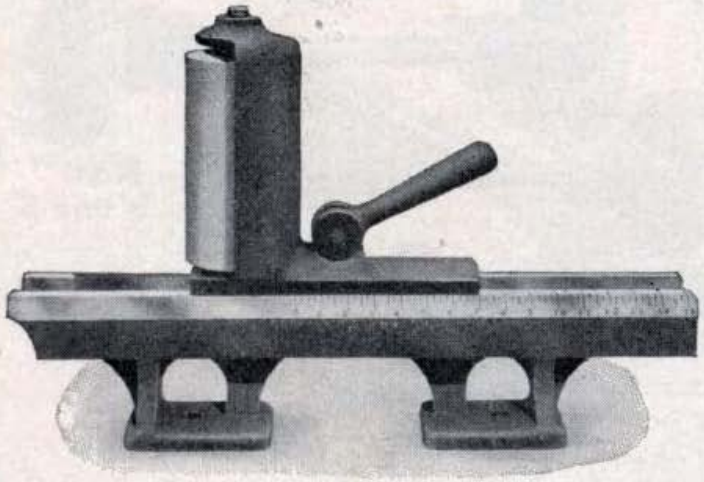
See pages 139-141 for code names.

Gauge Rollers

No. 2



No. 1

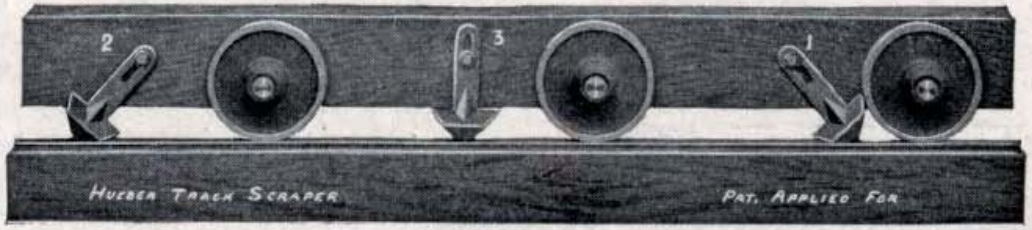


A **Gauge Roller** is a great help in cutting accurate lumber. We can furnish two styles, Nos. 1 and 2, as shown herewith for use on any of our mills.

No. 1, for small mills, weight, 90 lbs., Code name, **"Gauger," Price**.....**$26.00**

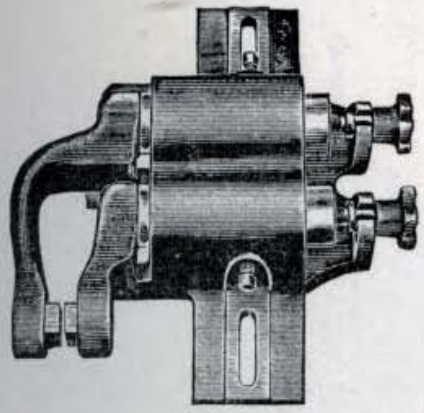
No. 2, for large mills, weight 150 lbs., Code name, **"Gauging," Price**.....**48.00**

Track Scrapers



This cut shows our **"Hueber" Patent Track Scraper,** the simplest and most effective scraper ever devised. When properly fitted to the carriage, it will clean the track and wheels at the same time and automatically reverses with the carriage, scraping the track both ways. It will not catch on the end of the track. It is furnished on all our mills from No. 1 to 4. **Price each,** when ordered separately, **$1.00.** Code name, **"Trackless."**

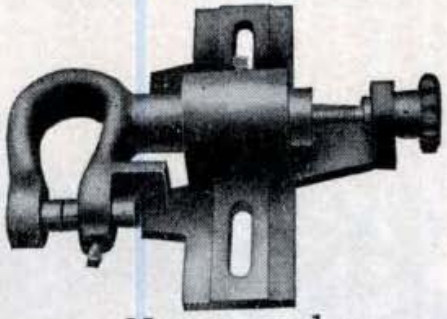
American Universal Saw Guides



No. 3

We show here our **American Universal Saw Guides** which we furnish regularly with all our saw mills.

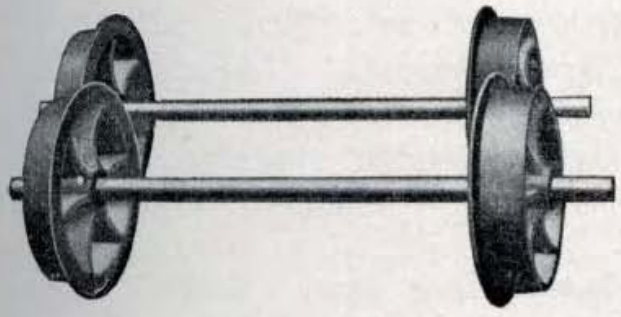
These guides will fit either right or left hand mills equally well and can be used on mills of any make. The yoke is adjusted in or out by simply turning the knurled hand screw, which can be done while the saw is in motion without danger to the sawyer. They give universal satisfaction.



Nos. 1 and 2

	No. 1	No. 2	No. 3
Net weight	25 lbs.	40 lbs.	75 lbs.
Price	**$8.00**	**$10.00**	**$18.00**
Furnished with Mills Nos.	1 to 3	4, 6 and 7	7½ and 8
Code name	**"Sawlike"**	**"Sawbill"**	**"Sawpit"**

Lumber Trucks

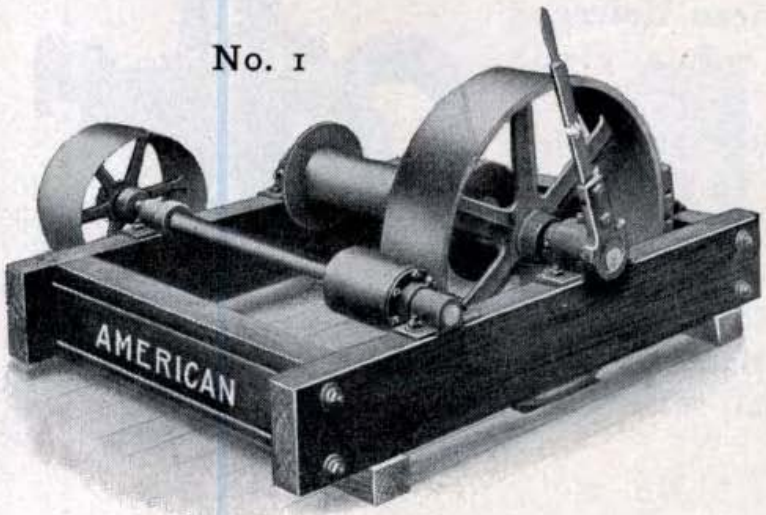


Our **Standard Lumber Trucks** are made in four regular sizes with steel axles and are intended to be used in wood frames without boxes, but suitable boxes can be furnished when wanted at extra cost. All are 26½-inch gauge and 2½-inch tread. Wider gauge furnished at extra cost.

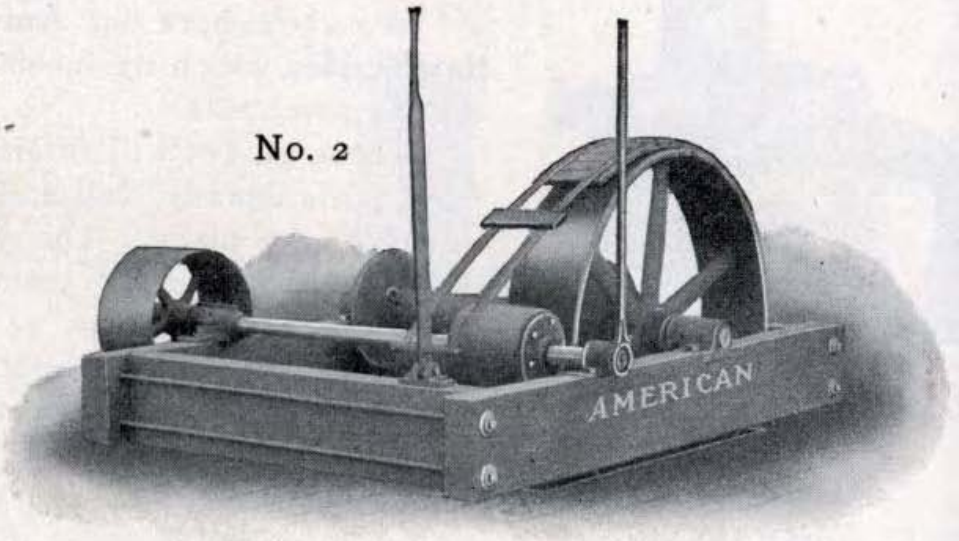
Size of wheel	8 in.	10 in.	12 in.	16 in.
Size of axle	1 7/16	1 7/16	1 7/16	1 11/16
Weight lbs.	90	132	148	225
Price per set	**$10.00**	**$12.00**	**$14.00**	**$16.00**
Price, Boxes each	.80	.80	.80	1.40
Code name	**"Truce"**	**"Truant"**	**"Trudge"**	**"Trump"**

American Friction Log Haul-Up

No. 1



No. 2



These machines are used for quickly and easily hoisting logs or drawing them in from a river or yard where they are stored or for moving them on the skid way. They are strong, reliable, and easily managed and save time and labor. They are a necessity in all large mills. We can furnish the iron parts only or the complete machines as shown in cuts herewith. Made in two sizes.

No. 1. Frame 4′x 5′3″. Bull Wheel, 32″x 8″. Friction, 6″x 8″. Drum 24″x 6″, 12″ flanges. Drum Shaft $2\frac{5}{16}$″. Driving Pulley, 16″x 8″, should run 250 revolutions per minute. Weight, complete machine, net 875, gross 1,175 lbs. Cubic contents, 4½′x 5½′x 2′. **Price $110.00.** Code name, **"Loger."**

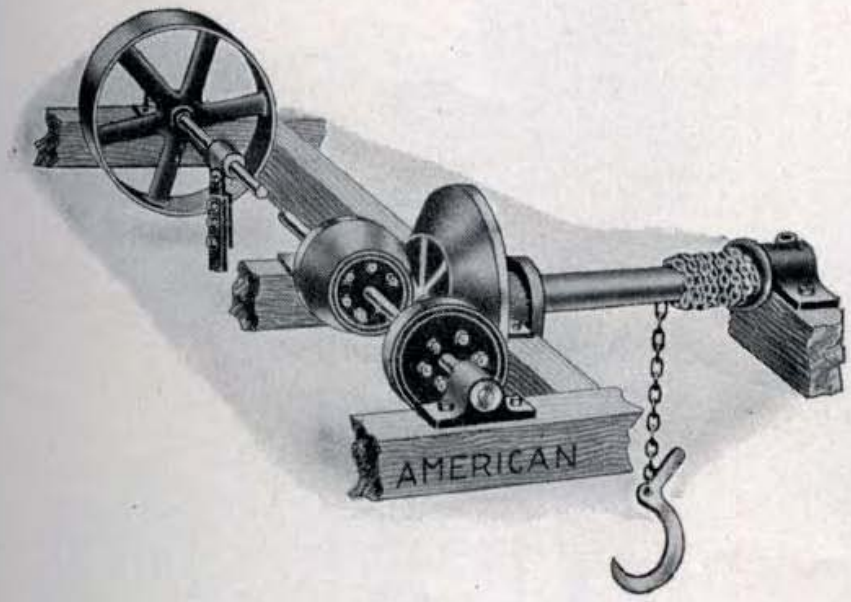
Iron parts only, weight, 620 lbs. **Price, $90.00.**

No. 2. Frame 5′3″x 7′3″. Bull Wheel 48″x 10″. Friction, 10″x 10″. Drum, 36″x 6″, 18″ flanges. Drum Shaft $2\frac{11}{16}$″. Drive Pulley 20″ x 10″, should run 250 revolutions per minute. Weight, complete machine, net 1,650 lbs., gross, 2,050 lbs. Cubic contents 5½′ x 7½′x 2′.

Price, $160.00. Code name, **"Logy."**

Iron parts only, weight, 1315 lbs. **Price, $135.00.**

Log Turner or Canter



The **Log Turner** here shown is well known and has given satisfaction to mill men everywhere. It is simple and easy to operate yet strong and reliable.

It should be erected directly over the carriage with the drum parallel thereto. The operating lever is connected direct to pulley shaft and should hang near the sawyer.

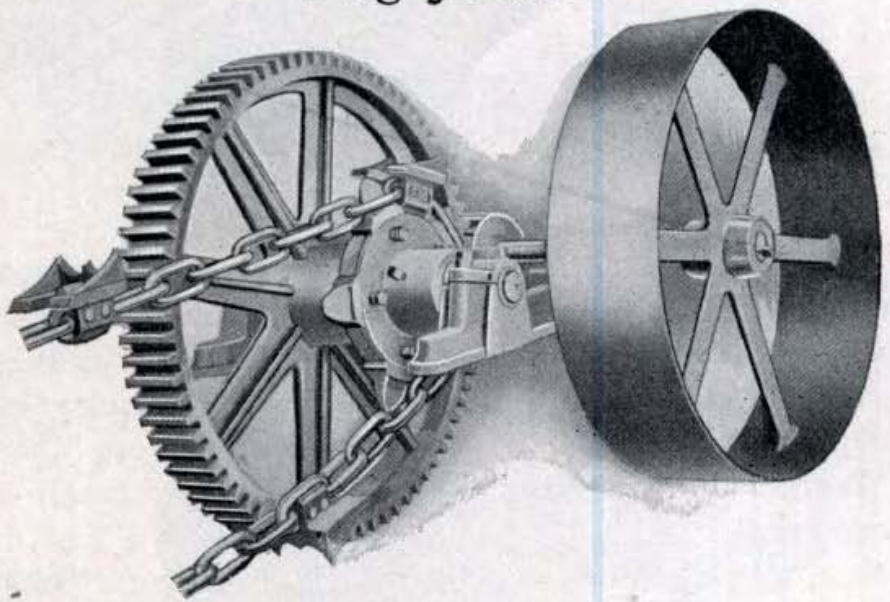
A slight motion brings either of the paper frictions into contact with the iron bevel friction on the end of the drum, thus raising or lowering the hook chain.

Chain and hook are extra.

Furnished in Two Sizes as Follows:

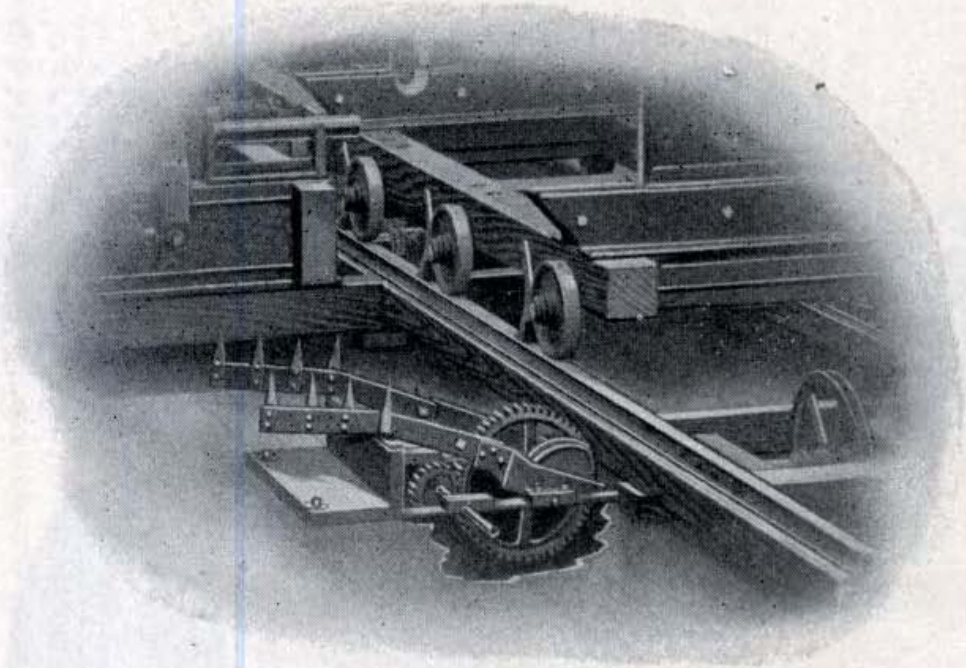
	No. 1	No. 2
Driving Pulley (speed 200)	24″x 6″	24″x 8″
Driving Shaft, 8′ long	1 15-16″	2 3-16″
Paper Friction Cones	8″x 5″	10″x 6″
Bevel Iron Friction	24″x 5″	30″x 6″
Drum with 10″ flanges	24″x 4″	30″x 4″
Weight, net	460 lbs.	630 lbs.
Weight, gross (boxed)	560 lbs.	730 lbs.
Cubic measurement	21 cu. ft.	32 cu. ft.
Price, complete	**$100.00**	**$120.00**
Price ½″ Chain per foot	.32	.32
Price of Hook	2.50	2.50
Code name	"Logging"	"Logos"

Log Jacker



We can furnish Log Jackers of this style in several sizes; Prices on application.

"Edwards" Log Turner

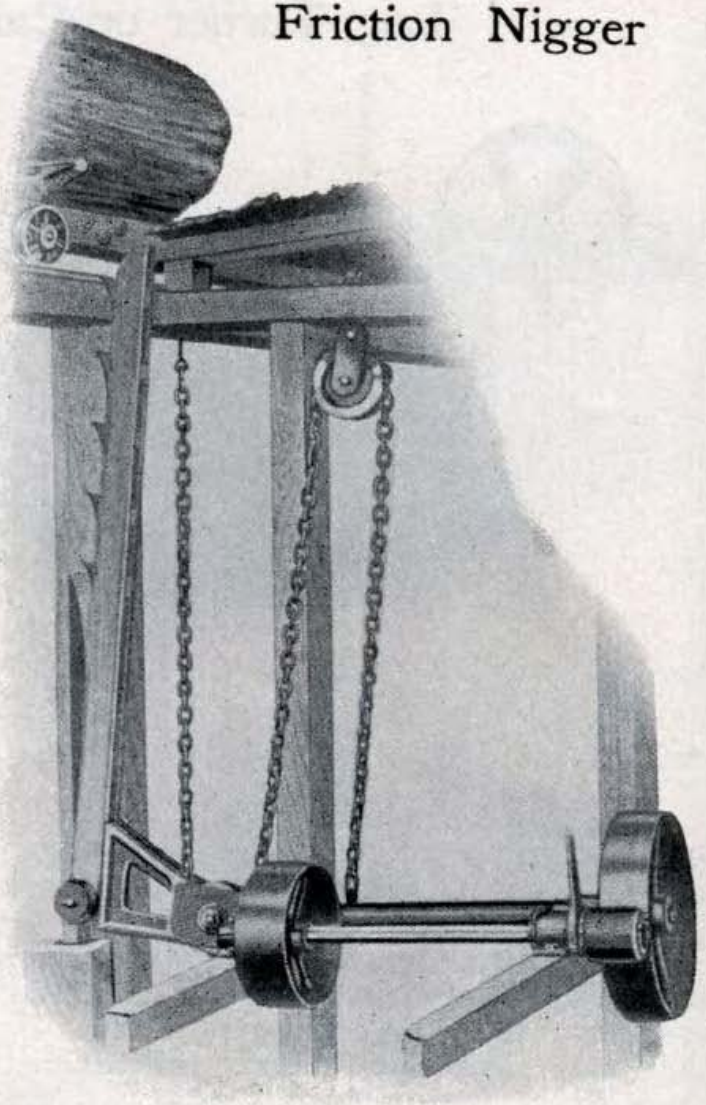


When desired we can equip any of our small or medium mills with the "Edwards" Power Log Turner shown in the above cut. It is quick and powerful, a great labor saver and increases the capacity of the mill. It is driven by gearing direct from the Saw Mandrel and operated by a lever in easy reach of the sawyer.

No. 1, weight 650 pounds. Code name, **"Logical."** **Price, $170.00.**

No. 2, weight 750 pounds. Code name, **"Logician."** **Price, $195.00.**

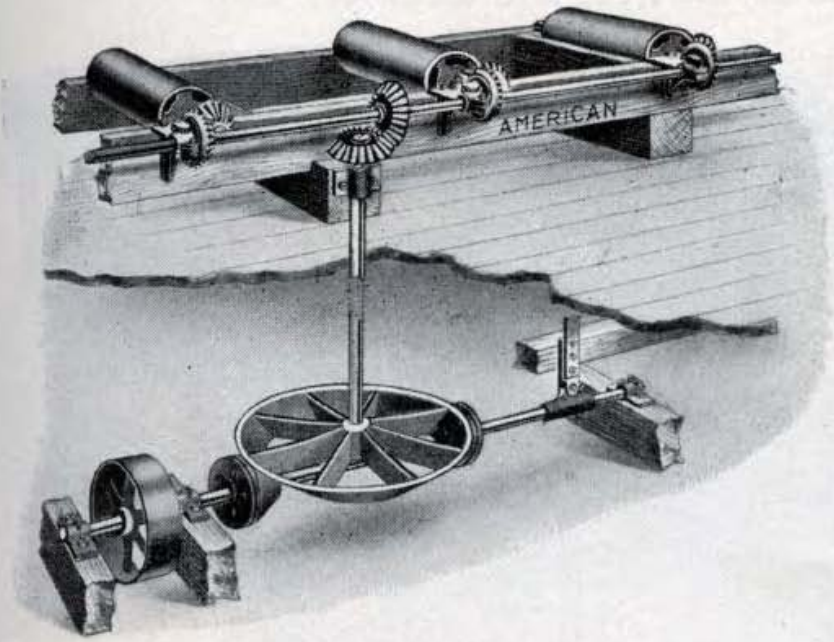
Friction Nigger



For heavier mills we can furnish "Friction Niggers" as shown or "Steam Niggers" if preferred. Prices on application.

Code word, **"Niger."**

Steel or Cast Iron Live Rolls



We are prepared to furnish **Turned Iron Live Rolls** as illustrated in the accompanying cut, which also shows the manner of erecting them in the mill. These are very essential in large mills for quickly and easily moving the slabs and lumber. Complete details, specifications and drawings furnished on opplication. Any number of rolls furnished right or left hand.

The **Driving Gear** consists of single or double frictions with shifting device, driving pulley, shaft and three boxes as shown.

Size of Rolls	8″x 18″	8″x 24″
Price of one Roll with gears, bracket boxes, and 4½ ft. of drive shaft	**$18.00**	**$21.00**
Weight	161 lbs.	177 lbs.
Code name	**"Livery"**	**"Lively"**
Price of Driving Gear if wanted	**$70.00**	**$70.00**
Weight	400 lbs.	400 lbs.
Code name of Driving Gear	**"Driver"**	**"Driver"**

Light Steel Pipe Live Rolls

For small mills or for light work in large mills we make cheaper, lighter, but strong and durable rolls as shown in this cut. The gears and the pinions are small and can be boarded over. Furnished in following sizes with 4 feet of drive shaft to each roll.

	18″	20″	24″
6″ Roll with bearings and pinion	**$12.00**	**$14.00**	**$16.00**
8″ Roll with bearings and pinion	**15.00**	**17.00**	**19.00**

Code name, **"Livid."** (Give size wanted.)

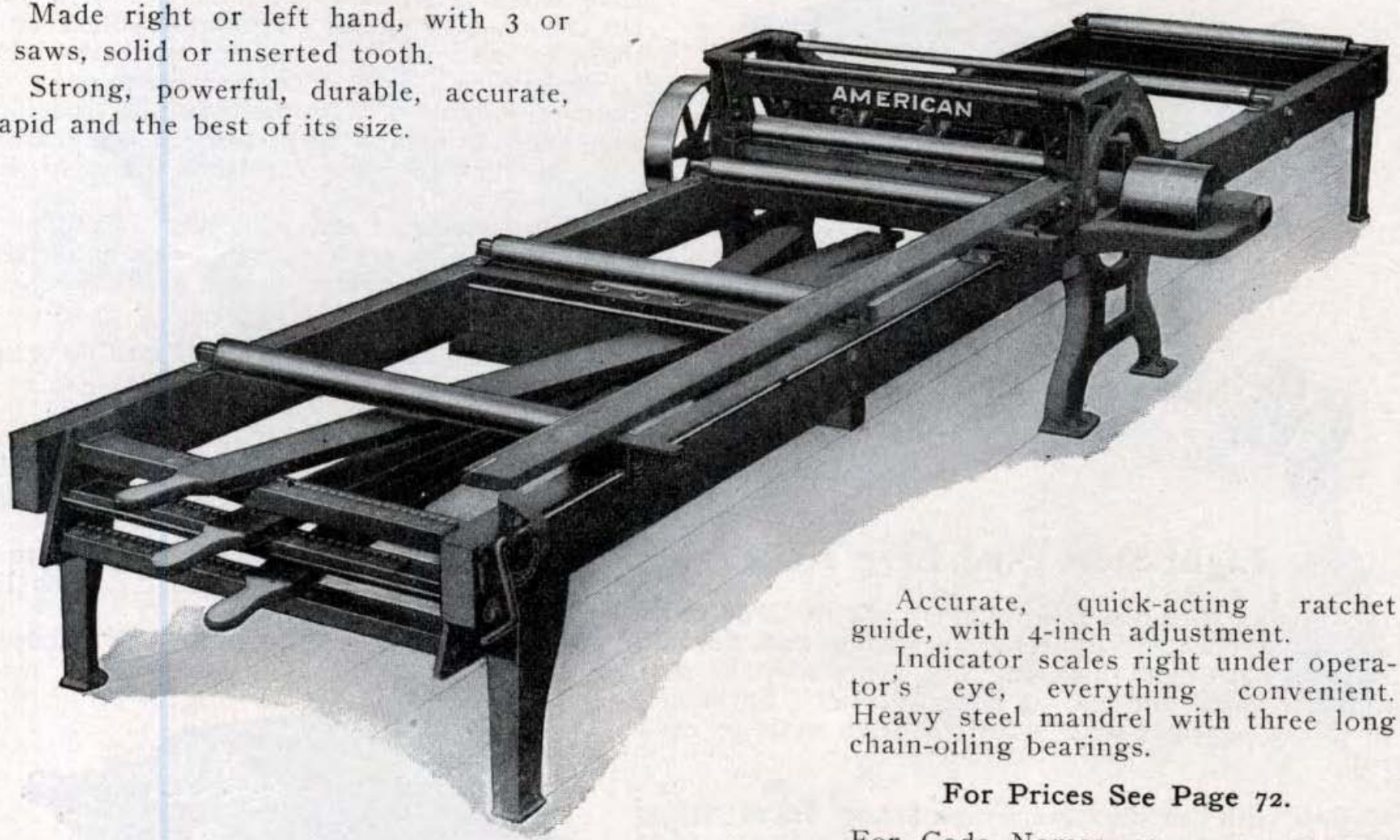
A simple driving gear can be furnished when wanted at very low cost.

American "Senior" Gang Edger 46-Inch

For Large Mills, Cutting 30,000 to 60,000 Feet and More per Day

Made right or left hand, with 3 or 4 saws, solid or inserted tooth.

Strong, powerful, durable, accurate, rapid and the best of its size.



Accurate, quick-acting ratchet guide, with 4-inch adjustment.

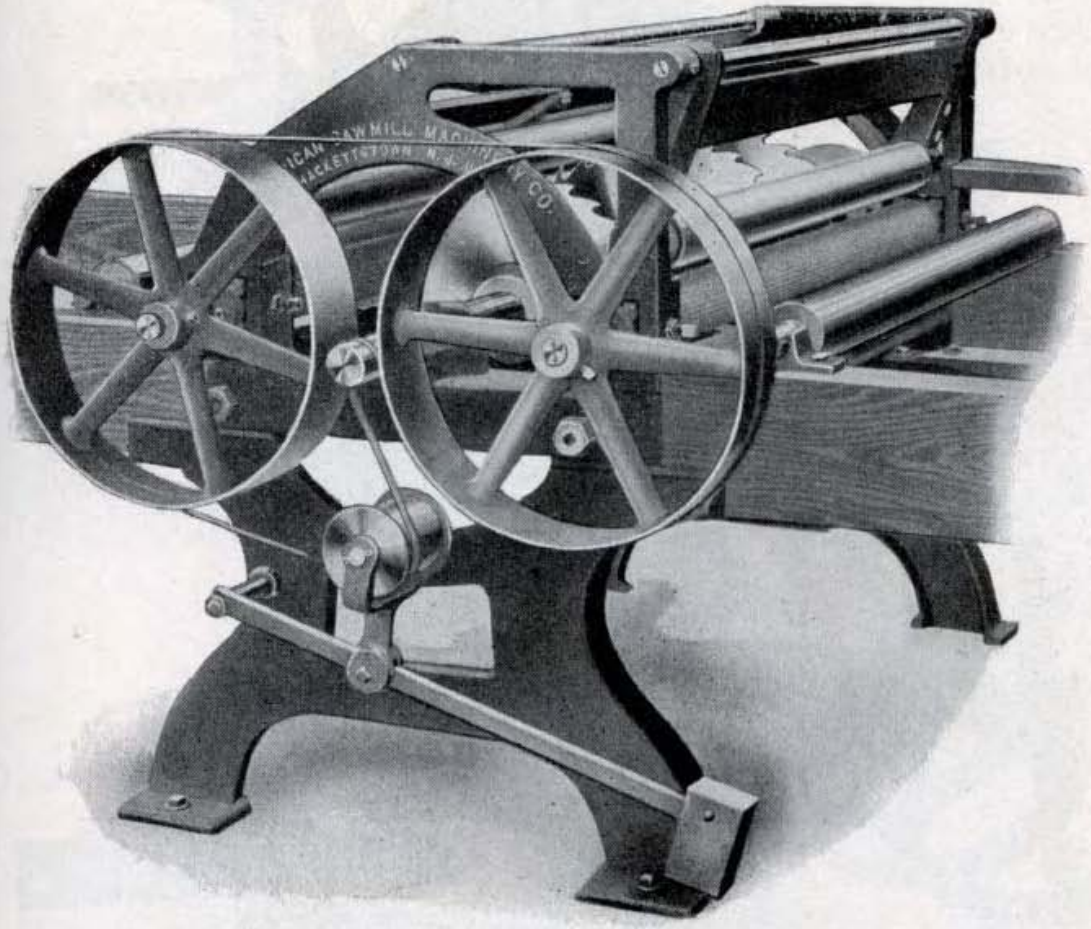
Indicator scales right under operator's eye, everything convenient. Heavy steel mandrel with three long chain-oiling bearings.

For Prices See Page 72.

For Code Names, see pages 139-141.

Full Length View From Operating End, Right Hand Machine.

American "Senior" Gang Edger 46-Inch



View Showing Self-Contained Substantial Iron Central Section, Carrying All Working Parts; Also Showing Arrangement of Belt Tightener and Feed Belt

Feed rolls grooved and fluted, heavy pressure rolls insuring strong positive feed.

Feed roll boxes adjustable in all directions to regulate the lead, insuring straight, accurate lumber.

Both pressure rolls swing with the lumber as it feeds in, and are self-adjusting.

Large tubular steel idle rolls on extensions. A machine easy to handle.

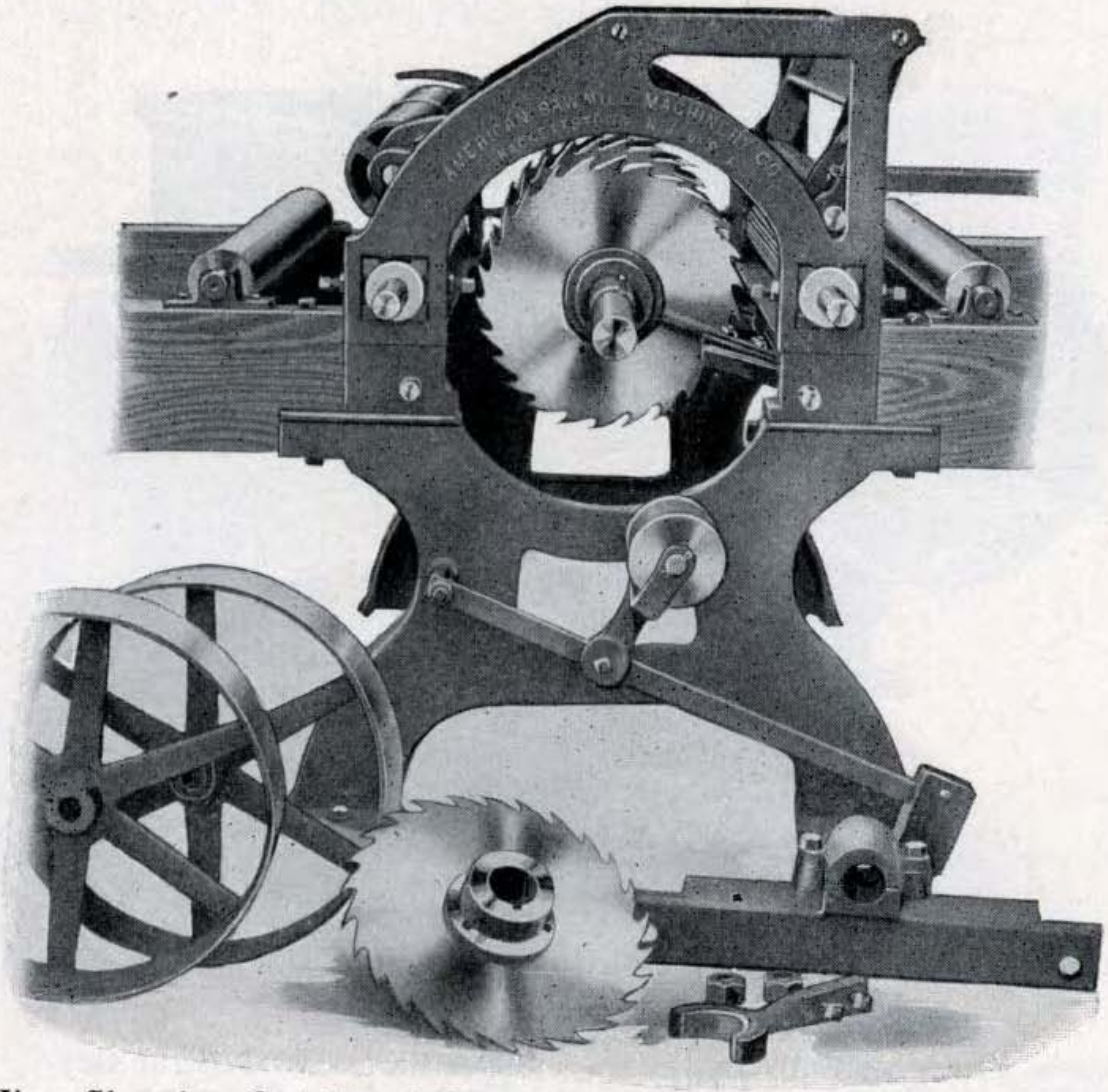
American "Senior" Gang Edger, 46-Inch

Specifications:

Mandrel, $2\frac{11}{16}$".
Mandrel Pulley, 10" x 10".
Size of Saws 16".
Speed of Saws, 1500 to 1800 r. p. m.
Works Stock up to 4" thick.
Width Inside, 46".
Greatest Opening between saws:
3-Saw Machine, 34".
4-Saw Machine, 30".
Feed Belt needed 10' 7" of 4".
Shipping Weight, 2700 pounds.
Floor Space, 22'x 6' 6".

Price List

3-Saw Machine:
Without Saws, **$335.00.**
With Solid Saws, **$350.00.**
With Inserted-Tooth Saws, **$398.00.**
4-Saw Machine:
Without Saws, **$355.00.**
With Solid Saws, **$375.00.**
With Inserted-Tooth Saws, **$439.00.**



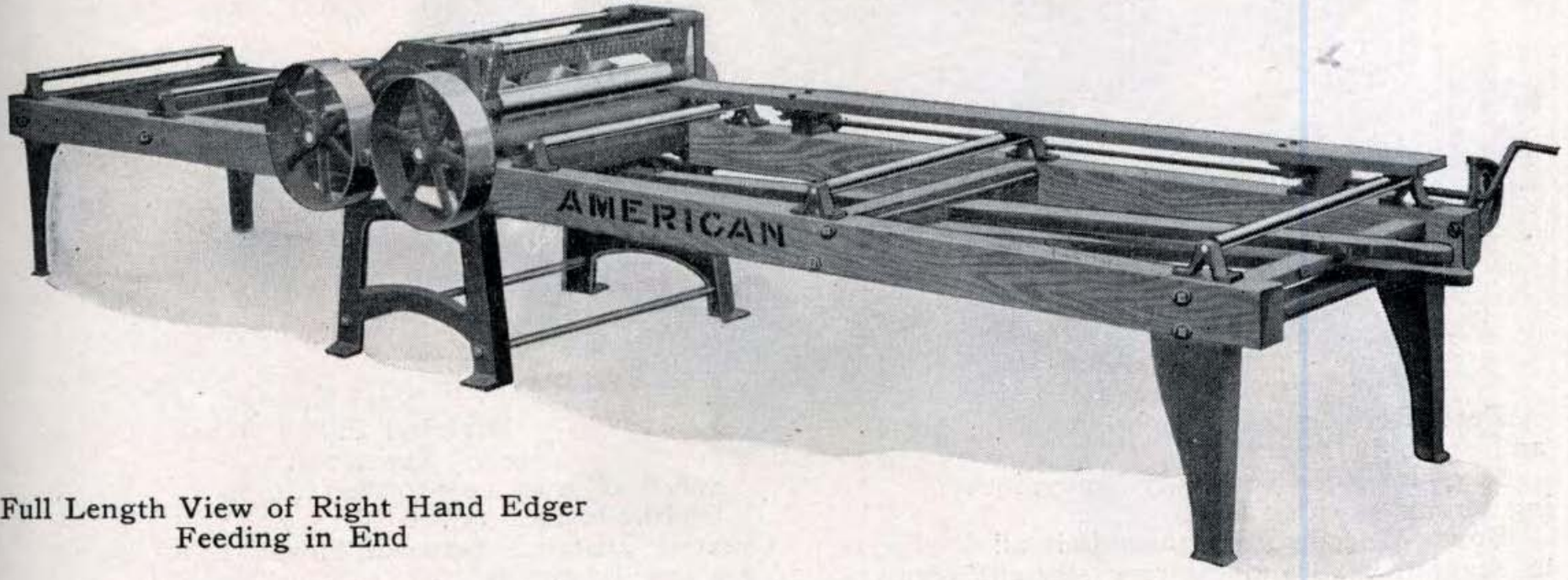
View Showing Quick and Easy Method of Removing Saws Without Disturbing Mandrel. Take off Feed Pulleys and Two Nuts—That's All.

American "Junior" Gang Edger, 33-Inch

For Mills Cutting up to 30,000 Feet per Day

Made right or left hand with 2 or 3 saws, solid or inserted teeth.

Single or double pressure rolls. Quick acting ratchet guide. Indicator always in full view of the operator. Every machine tested before shipment.



Full Length View of Right Hand Edger Feeding in End

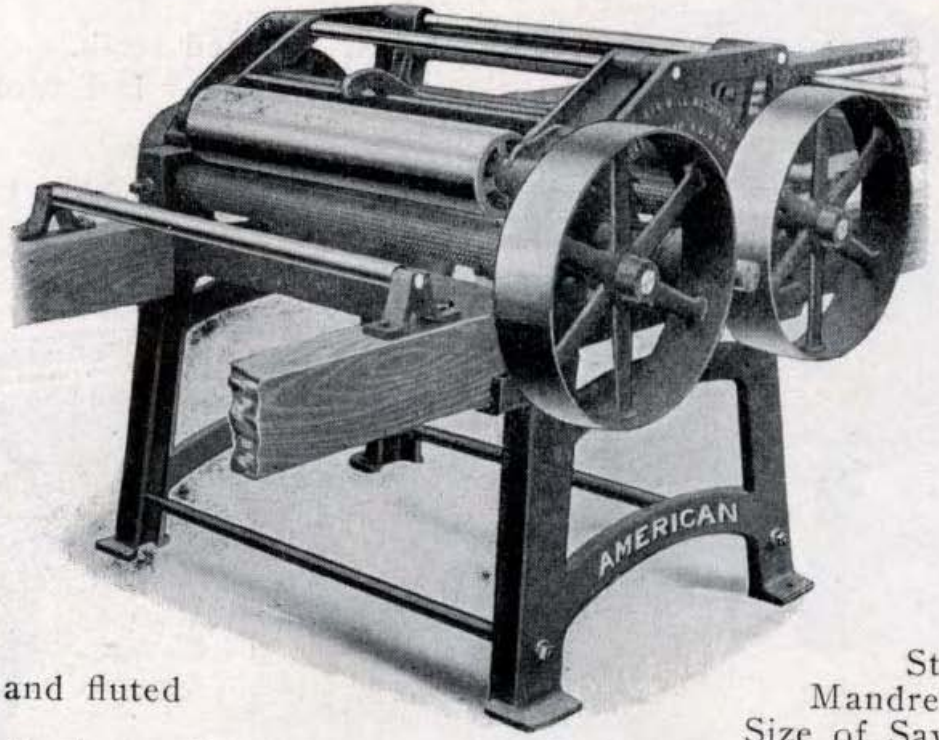
Shifting levers securely held by ratchet at operating end. Easy to work.

For medium size plants this edger has no superior. It is strong, accurate, reliable and a rapid worker. Will pay for itself in a short time in improved and increased product and saving in waste.

Saws filed and set ready for use. **For prices see page 75.** For code names see pages 139-141.

American "Junior" Gang Edger, 33-Inch

Specifications



Feed Rolls grooved and fluted and strongly driven.

Pressure Rolls unusually heavy, insuring strong, positive feed.

Boxes of feed rolls adjustable in all directions to regulate lead and insuring straight accurate lumber.

Mandrel easily drawn out for changing saws.

Floor Space required 18′ 6″x48″.

Feed Belt needed, 9′ of 4″.

Steel Mandrel, $1\frac{15}{16}$″.

Mandrel Pulley 10″x 8″.

Size of Saws, 16″.

Speed of Saws, 1500 to 1800 r. p. m.

Width Inside, 33″.

Greatest Distance between Saws:

2-Saw Edger, 23″.

3-Saw Edger, 19″.

Shipping Weight:

Single Roll Edger, 1500 lbs.

Double Roll Edger, 1675 lbs.

View Showing Strong, Self-Contained Iron Central Section, Which Carries all Working Parts. Note the Extra Heavy Pressure Roll on Feed-Out Side.

American "Junior" Gang Edger, 33-Inch

Price List

Single Pressure Roll
2-Saw Machine:

Without Saws	$190
With Solid Saws	200
With Inserted-Tooth Saws	232

3-Saw Machine:

Without Saws	$205
With Solid Saws	220
With Inserted-Tooth Saws	268

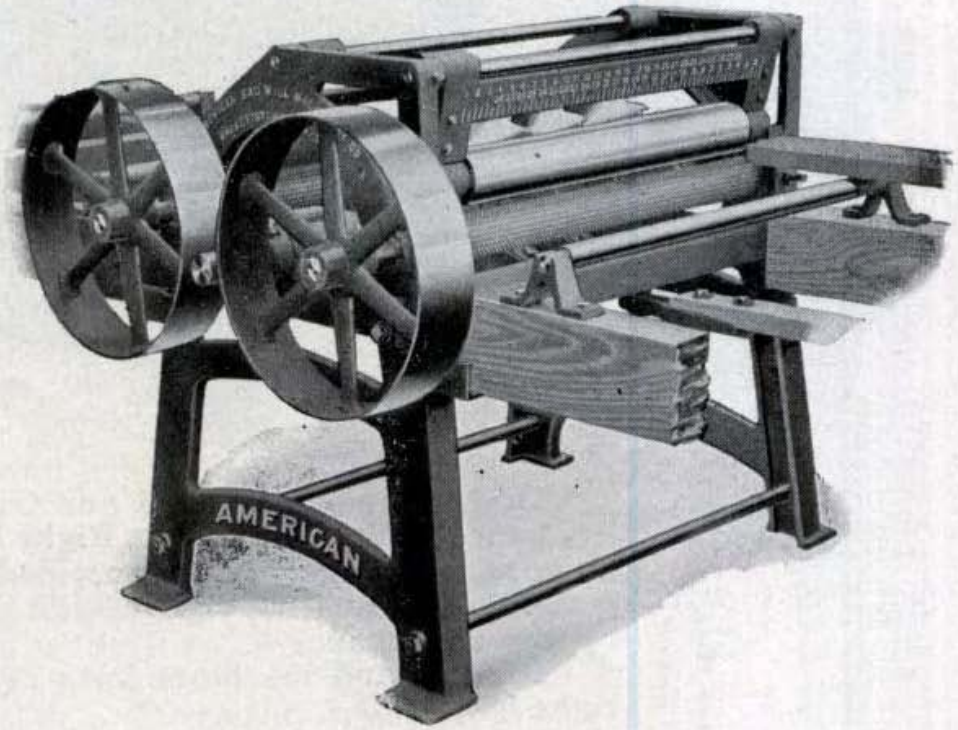
Double Pressure Roll
2-Saw Machine:

Without Saws	$214
With Solid Saws	224
With Inserted-Tooth Saws	256

3-Saw Machine:

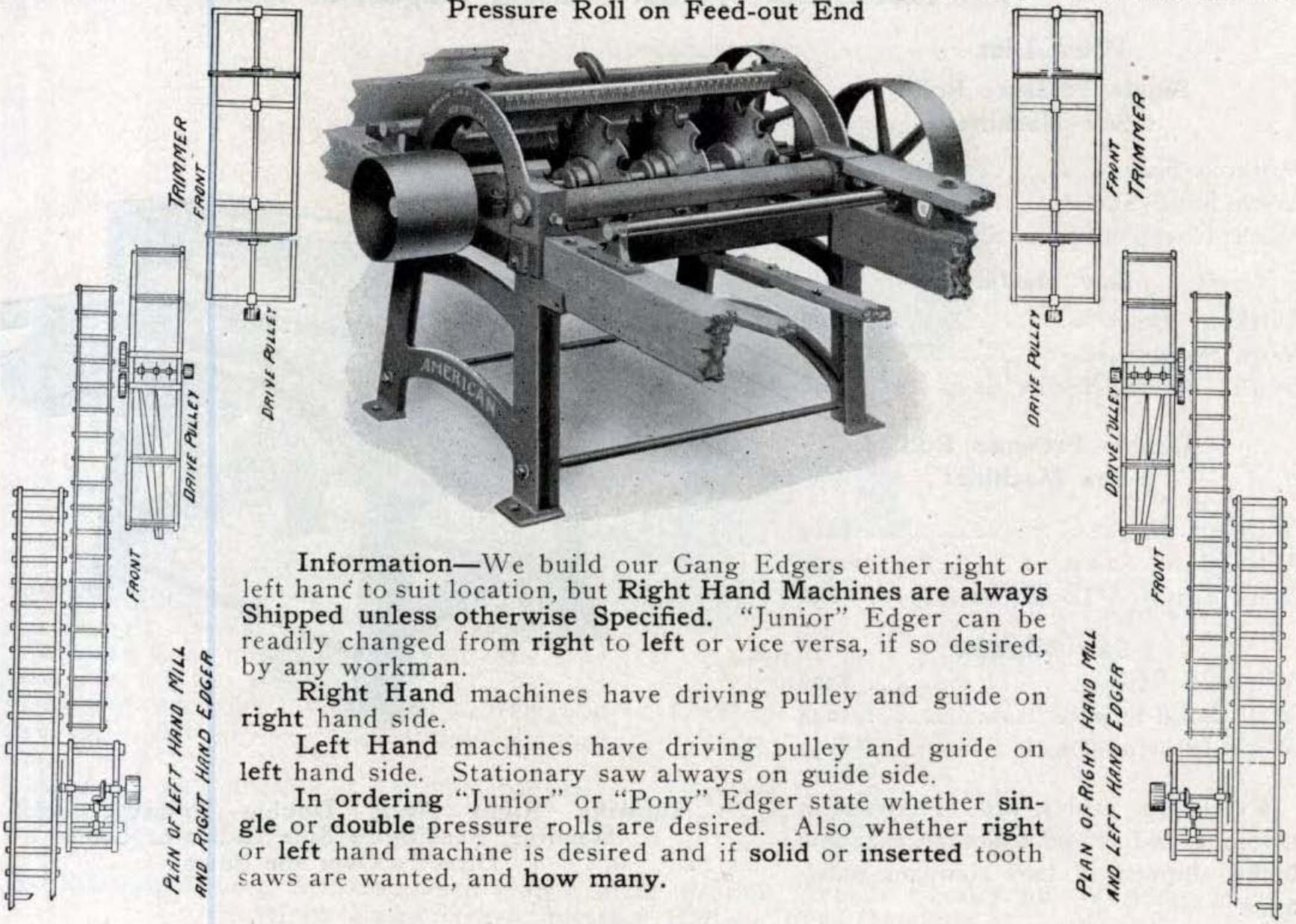
Without Saws	$229
With Solid Saws	244
With Inserted-Tooth Saws	292

Extension tables are removed in shipping and crated together, machine being shipped in two compact packages.



Showing Right Hand Double Pressure Roll Machine, Feeding-in Side Indicator Scale Directly Over the Saws

Machine With Single Pressure Roll and Inserted Tooth Saws. Single Pressure Roll Machine Has Pressure Roll on Feed-out End



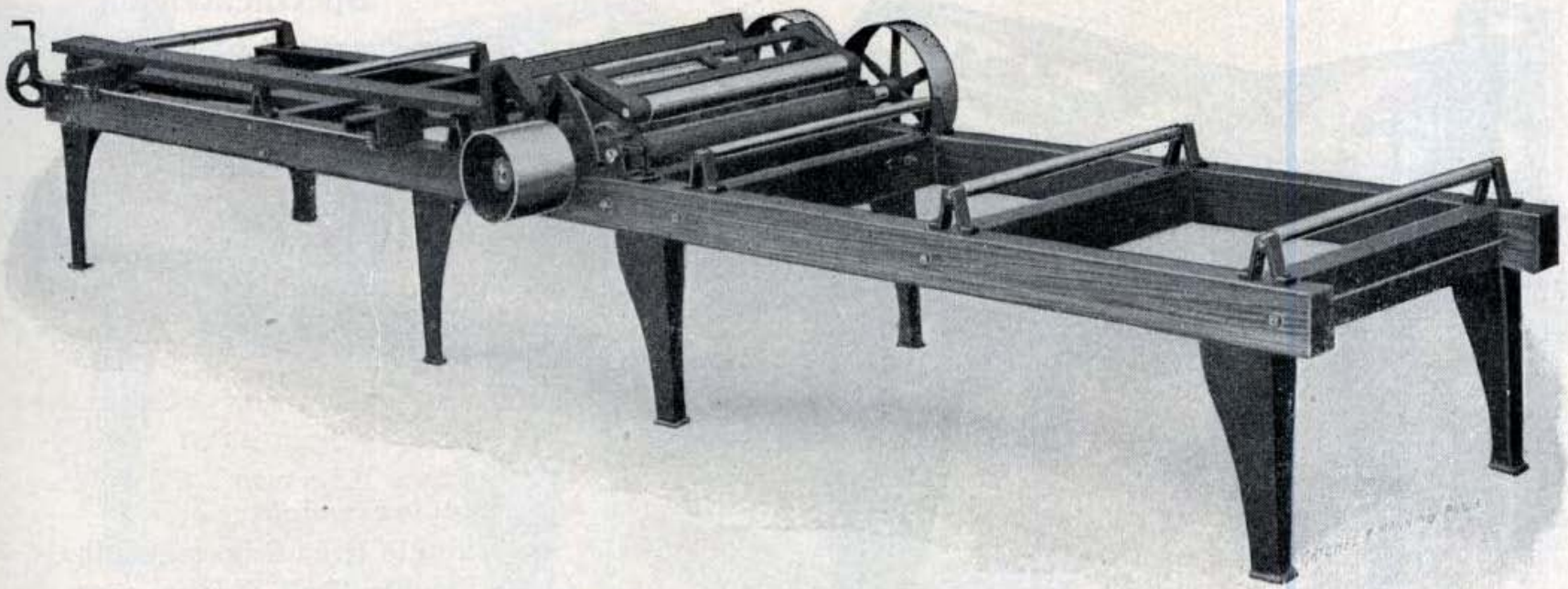
Information—We build our Gang Edgers either right or left hand to suit location, but **Right Hand Machines are always Shipped unless otherwise Specified.** "Junior" Edger can be readily changed from **right** to **left** or vice versa, if so desired, by any workman.

Right Hand machines have driving pulley and guide on **right** hand side.

Left Hand machines have driving pulley and guide on **left** hand side. Stationary saw always on guide side.

In ordering "Junior" or "Pony" Edger state whether **single** or **double** pressure rolls are desired. Also whether **right** or **left** hand machine is desired and if **solid** or **inserted** tooth saws are wanted, and **how many.**

American "Pony" Gang Edger, 33 Inch



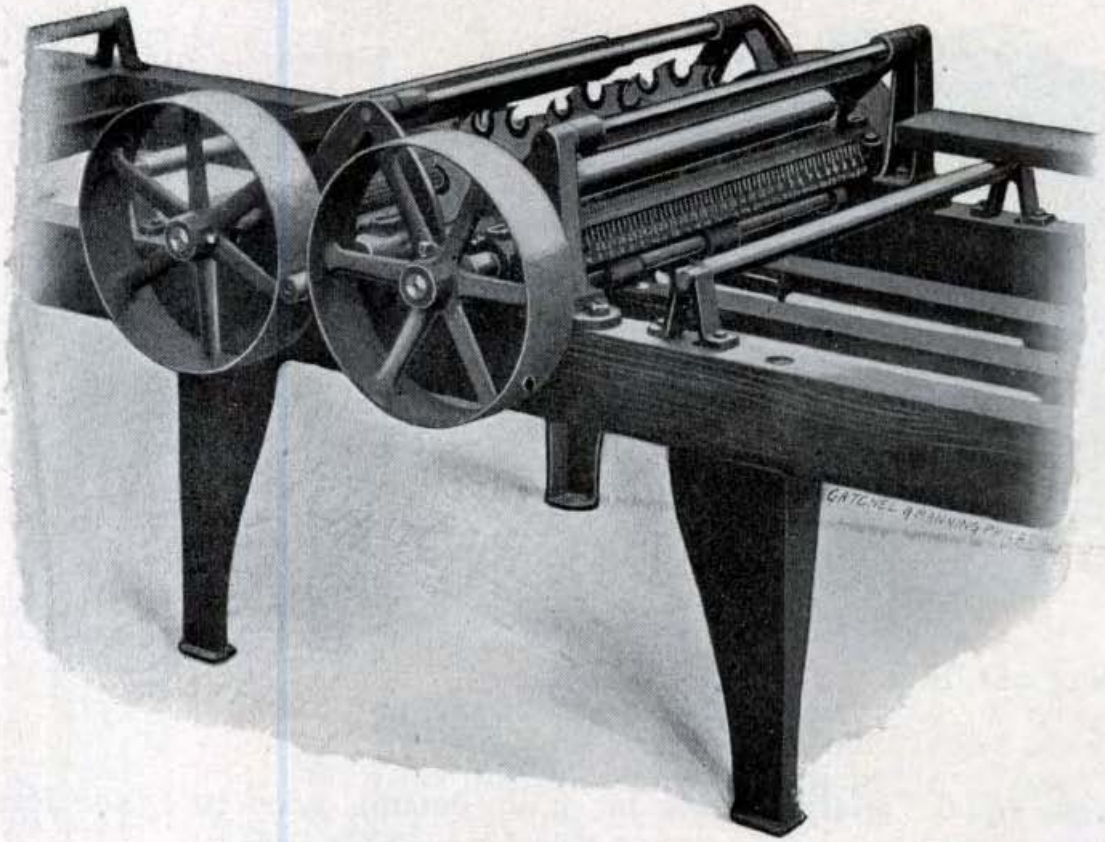
Full Length View From Feeding-out End

For small plants this edger has no equal. Indispensable for mills cutting 5,000 to 15,000 feet per day. Increased capacity and saving in waste pays for machine in a short time.

Made with 2 or 3 saws, solid or inserted teeth. Single or double pressure rolls. Self-oiling shifter forks. Quick acting ratchet guide. Indicator always in view of operator. Lever saw shift. Ratchet to hold saws in position. Each machine tested before shipment.

For dimensions and prices see next pages. For code names see pages 139-141.

American "Pony" Gang Edger, 33 Inch



Showing Right-Hand Double Pressure Roll—Inserted Tooth Saws

Specifications

Floor space 18′ 6″ x 48″.
Width inside 33″.
Guide Adjustment 4″.
Mandrel $1\frac{15}{16}$″ diameter.
Mandrel Pulley, 8″x 8″.
Saws 14″ diameter.
Speed, 1600 to 2000 r. p. m.
Feed Belt required, 8′ long, 4″ wide.
Maximum opening between saws:
2-Saw Edger, 24″.
3-Saw Edger 20″.
Shipping weight:
Single Roll Edger 1300 lbs.
Double Roll Edger 1400 lbs.
Rear section is detached in shipping. Front section, including working parts and shifting lever and guide, shipped intact, legs only being removed. Entire machine crated and shipped in one package.

Price List

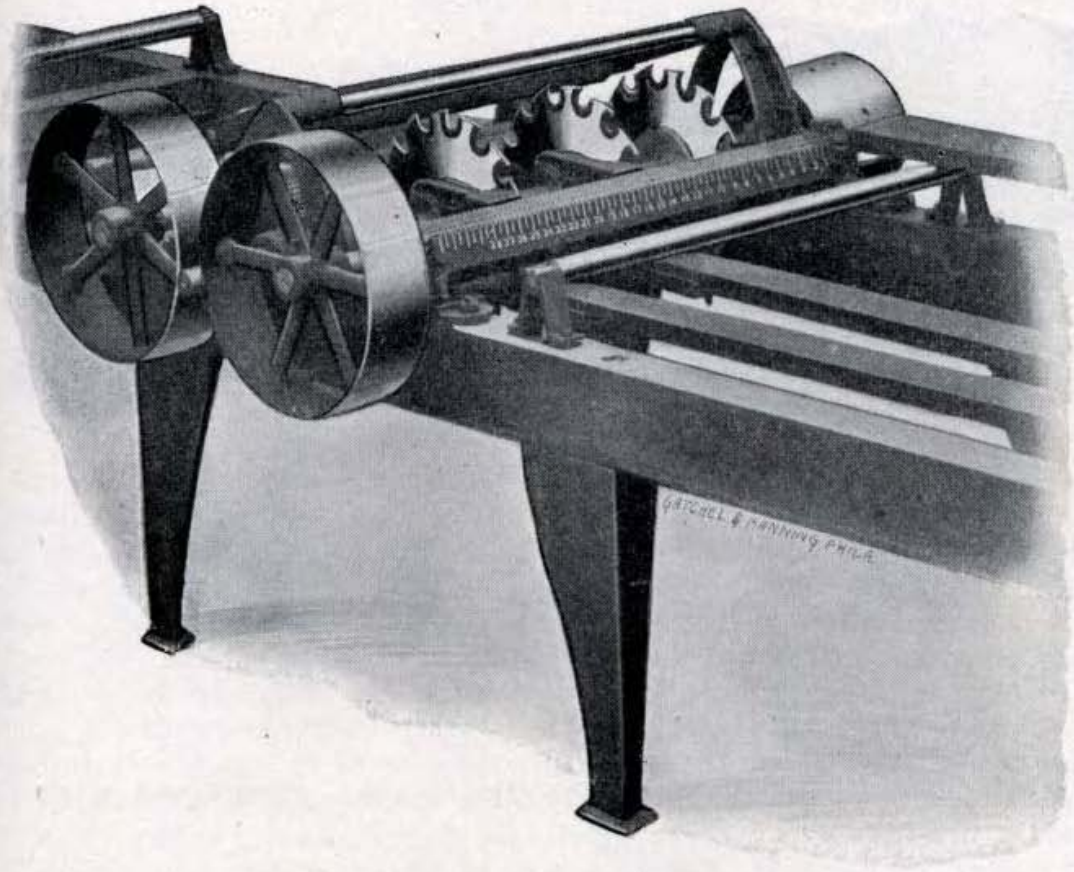
2-Saw Double Pressure Roll Edger

Without Saws	$150.00
With Solid Saws	160.00
With Inserted-Tooth Saws	190.00

3-Saw Double Pressure Roll Edger

Without Saws	$165.00
With Solid Saws	180.00
With Inserted Tooth Saws	225.00

American "Pony" Gang Edger, 33 Inch



Price List

2-Saw Single Pressure Roll Edger

Without Saws	$135
With Solid Saws	145
With Inserted-Tooth Saws	175

3-Saw Single Pressure Roll Edger:

Without Saws	150
With Solid Saws	165
With Inserted-Tooth Saws	210

Showing Right-Hand Single Pressure Roll—Inserted Tooth Saws

All parts interchangeable for right and left hand edgers. Right hand machine has pulley and guide on right hand side. Left hand machine has pulley and guide on left hand side. Stationary saw always on guide side.

For light work, edging boards, etc., the single pressure roll edger is preferred by many operators. Provision is made for attaching the front pressure roll, which may be added later.

American Single Saw Hand Edger

This machine is very valuable in properly edging and hearting lumber for the market, thus making it grade higher and bring a better price. It is provided with an **Adjustable Ripping Gauge,** and may be used to great advantage in making pickets, slats, shingle-lath, and other kinds of ripping.

The Carriage will take a board 16 feet long, 24 inches wide, and is fitted with four sets of trucks mounted on steel axles, running in solid metal boxes. Substantial iron track is fitted to the ways. Furnished with one 16 inch solid saw. Larger saws can be used.

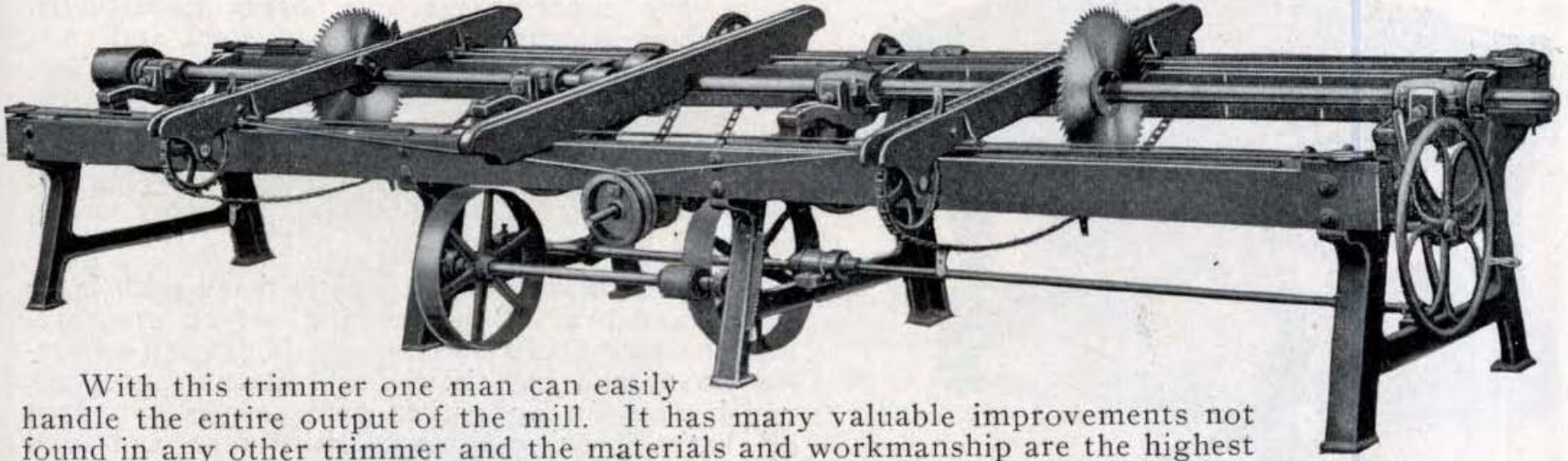
Dimensions

Main Table 2′x 4′ fitted with gauge.
Track Ways 32′ long, 22″ wide.
Carriage 14′ long, 13½″ wide.
Floor space required 32′x 4′6″.
Steel Axles ¾″ diam. Trucks 3¾″ diam.
Mandrel 1 7/16″ diameter—Hole in Saw 1¼″.
Driving Pulley 6″x 6″, Speed 1,500 r. p. m.

Weight net, 865 lbs.; gross, 1,150 lbs.
Cubic Measurement, 42 cu. ft.
Weight, all iron parts and Saw, 485 lbs.
Weight, Legs only, 350 lbs.
Price, complete with Saw, $100.00.
Price, all Iron Parts and Saw, no Legs, $40.00.
Price, all Iron Parts and Saw, with Legs, $65.00.

American "Lightning" Two-Saw Trimmer

For Mills Cutting from 20,000 to 50,000 Feet per Day



With this trimmer one man can easily handle the entire output of the mill. It has many valuable improvements not found in any other trimmer and the materials and workmanship are the highest grade. Four heavy cast iron leg frames carry the mandrel boxes and the timber on which the steel track rests.

The **Mandrel** is $2\frac{7}{16}$ inch steel, keywayed on both sides, perfectly balanced and extended on both ends to receive driving pulley.

There are four **Mandrel Boxes,** ring oiling and adjustable vertically and laterally so that the mandrel can be kept in perfect alignment. The end boxes are easily removed for taking off saws.

Mandrel Pulley, 8 inches by 8 inches can be placed on either end or in center of the mandrel.

Transfer Blocks are 6 feet long and slide on steel V track with an easy, rapid motion one foot each to one turn of shifting wheel. The sprockets are 12 inch and carrier chains are heavy and strong. Saw collars are fitted to the mandrel with feather keys and slide with the transfer blocks. The shifting wheel can be placed at either end or in center as may be desired.

The **Friction Feed** is powerful and can be varied to suit the thickness of the lumber, and can be stopped or started at will, and can be arranged to operate from either end or in center.

Each machine furnished with two 20 inch saws and is capable of cutting 5 inches thick.

Machines are knocked down and crated for shipment. Other lengths built to order.

Speed recommended, 1200 to 1400 r. p. m. See Code names pages 139-141.

No. 1 Trims 6′ to 16′. Weight, 2650 lbs. **Price, $280.00.**
No. 2 Trims 6′ to 18′. Weight, 2750 lbs. **Price, 300.00.**
No. 3 Trims 8′ to 20′. Weight, 2850 lbs. **Price, $320.00.**
No. 4 Trims 8′ to 24′. Weight, 3110 lbs. **Price, 340.00.**

American "Royal" Shingle and Heading Machine

Our **"Royal" Shingle and Heading Machine** is a very superior machine, being constructed throughout of the best grade of steel and iron, and of strictly first-class workmanship.

The design insures great strength, rigidity and durability. The frame consists of heavy cast iron front and back pieces securely bolted together by six heavy steel rods and two strong diagonal braces.

The **Mandrel** is steel and is fitted with large pulley and heavy balance wheel which are carefully balanced. It runs in self-oiling, self-adjusting boxes and has the lower end case hardened, which runs on an anti-friction step in constant oil bath, insuring proper adjustment and cool running bearings.

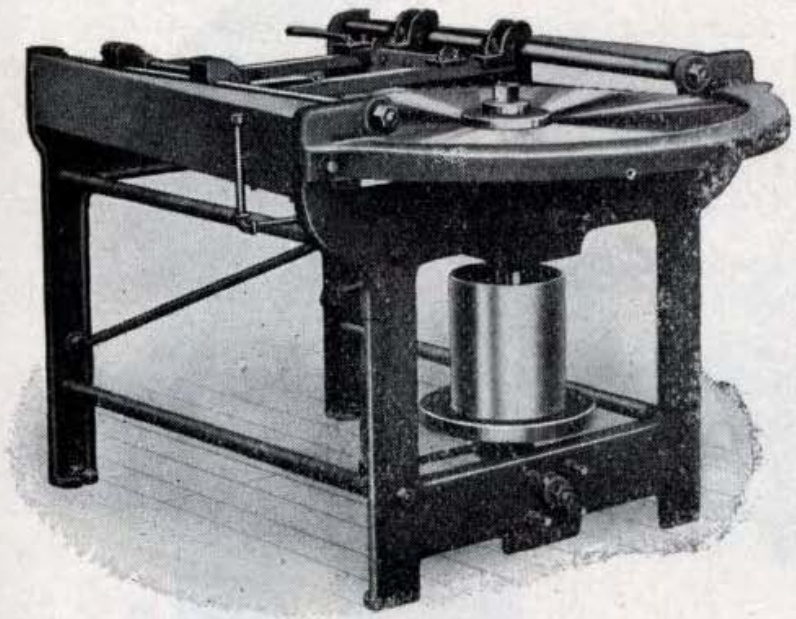
The **Carriage** is light and strong, with roller bearings and adjustments for cutting any length of shingles, box boards or heading, from 16 inches to 24 inches. Saws from 36 inches to 42 inches may be used.

Driving pulley, 12 inch diameter by 10 inch face. Balance wheel, 18 inch diameter by 2 inch face. Weight of balance wheel 85 lbs. Speed, according to size of saw, 1,200 to 1,500 r. p. m. Weight of machine complete with 42 inch saw, 1,050 lbs.

Price of machine, with 36" Saw..... **$300.00**
Price of machine, with 38" Saw..... **305.00**
Price of machine, with 40" Saw..... **310.00**
Price of machine, with 42" Saw..... **321.00**

Extra Saw and Collar fitted 36", **$50.00**; 38", **$65.00**; 40", **$70.00**; 42", **$81.00.**
Extra 20" Standard Saw Collar, **$22.00.** Code name, **"Shiner."**

American "Climax" Shingle Machine



Our **Climax Machine** cuts 16 to 18 inch shingles, and carries a 30 to 36 inch saw. **The Frame** is composed of two heavy castings bolted together by means of six horizontal rods and two diagonal braces, the two upper rods forming the carriage ways.

The **Arbor** is $1\frac{15}{16}$ inches in diameter, and runs in self-oiling as well as self-adjusting boxes. The **Carriage** is a combination of steel and wood, making it very strong as well as light. It runs on polished steel guides, and is constantly lubricated by oil pockets cast in same. Cast steel dogs, backed up by hard wood strips, hold the shingle blocks and allow the stock to be worked up with the least possible waste.

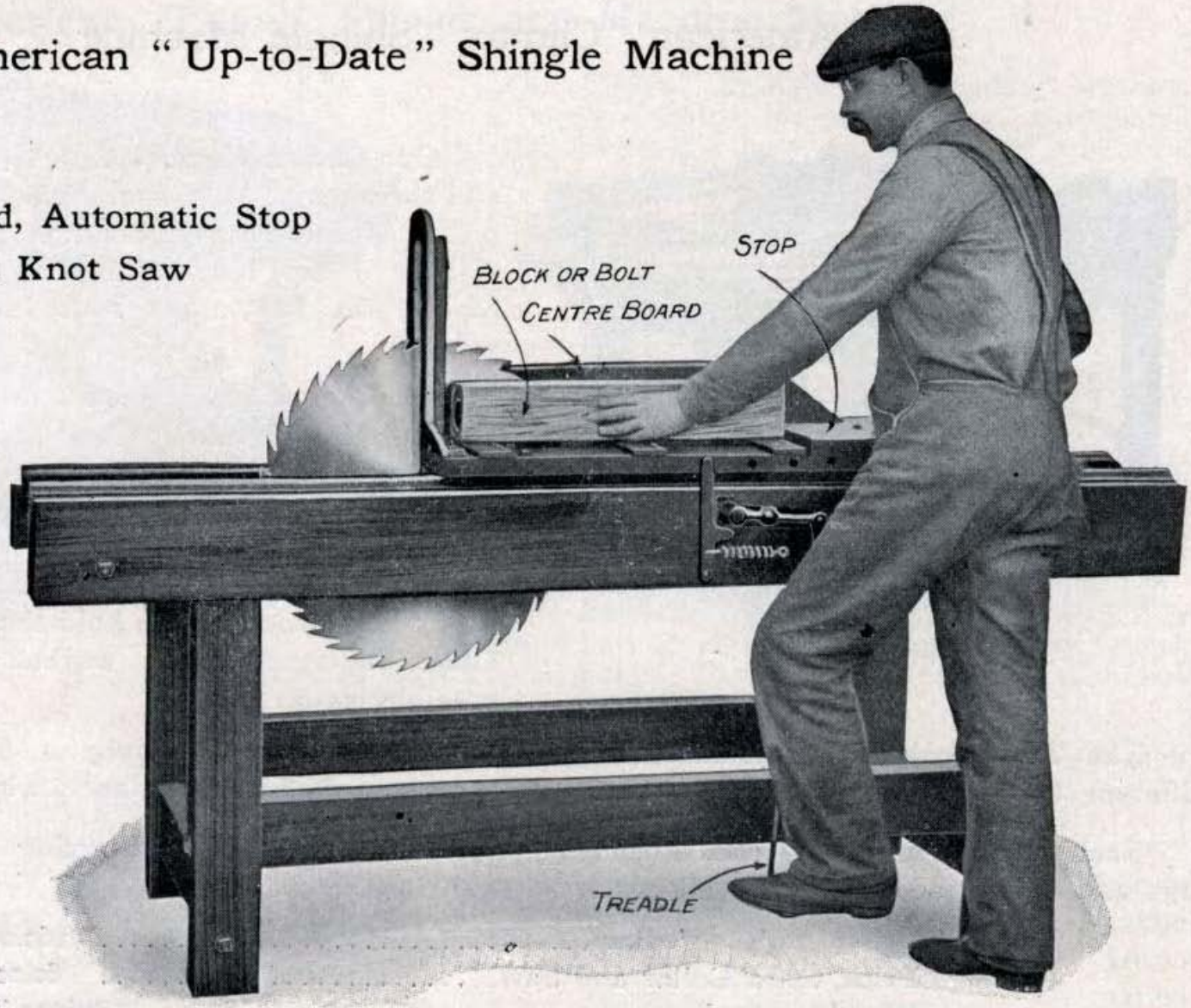
The **Tilt Works** are adjustable in each direction, securing thereby a fine adjustment for different thickness of shingles. This machine is furnished with balance wheel pulley.

Each machine is set up and thoroughly tested before shipping, insuring cool running bearings and proper adjustment of all parts.

Price, with 36" Saw..... **$160.00**
Price, extra Collar and Saw..... **60.00**
Weight, 600 lbs. Code name, **"Shinto."**

American "Up-to-Date" Shingle Machine

With Power Feed, Automatic Stop Edger and Knot Saw



To meet the demand for a reliable yet low priced **Shingle Machine**, suitable for small mills, farmers and others having light power, we offer our **"Up-To-Date" Shingle Machine** shown herewith. It will make shingles, heading, box boards, crate slats, etc., equally well.

The Carriage is very substantial and provided with a strong iron yoke that will admit saws up to 36 inch diameter. The underside is fitted with gibs, planed to fit the iron track to which they hold the carriage securely. These gibs are slotted to provide adjustment and to take up lost motion.

The thickness of shingle is regulated by an **adjustable tilting Device** in the center board, which can be removed for cutting box boards, etc. The center board is adjustable to regulate the thickness of box boards and may be removed entirely for bolting or squaring shingle blocks. No separate shingle block bolter is required. Shingles drop out underneath as they are cut.

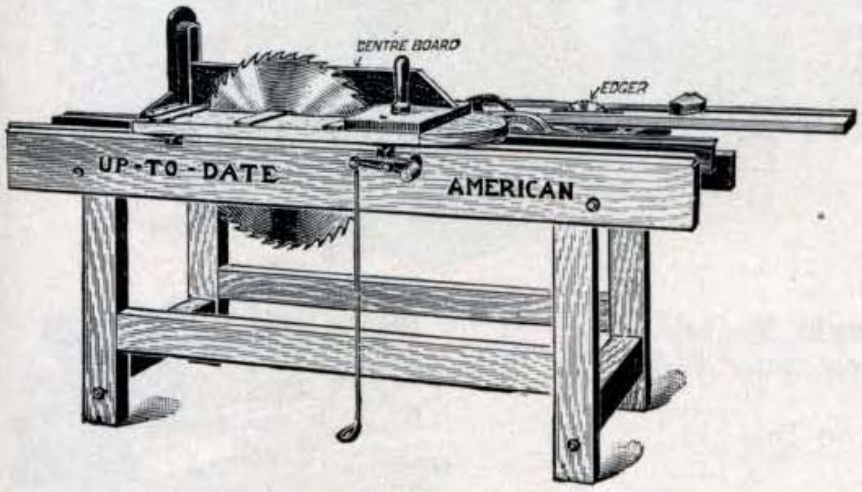
Power Feed is provided which is thrown into gear by pressure of the foot on the treadle, and the machine can be used either with hand or power feed.

The **Mandrel** is steel, with 6 inch collars and runs in self-oiling boxes, connected by heavy yoke with adjusting screw for regulating the lead of the saw.

An edger and knot saw is provided which has an 8 inch saw and a convenient gauge, insuring square, straight-edge shingles.

Larger saw for bolting the stock can be furnished, when desired, at additional cost. 5,000 to 10,000 shingles per day can easily be cut. Experts have done more.

The machine will handle square, round, or split blocks up to 24 inches long.
Furnished complete, with 24 inch shingle saw, 8 inch edger saw and feed and edger belts.

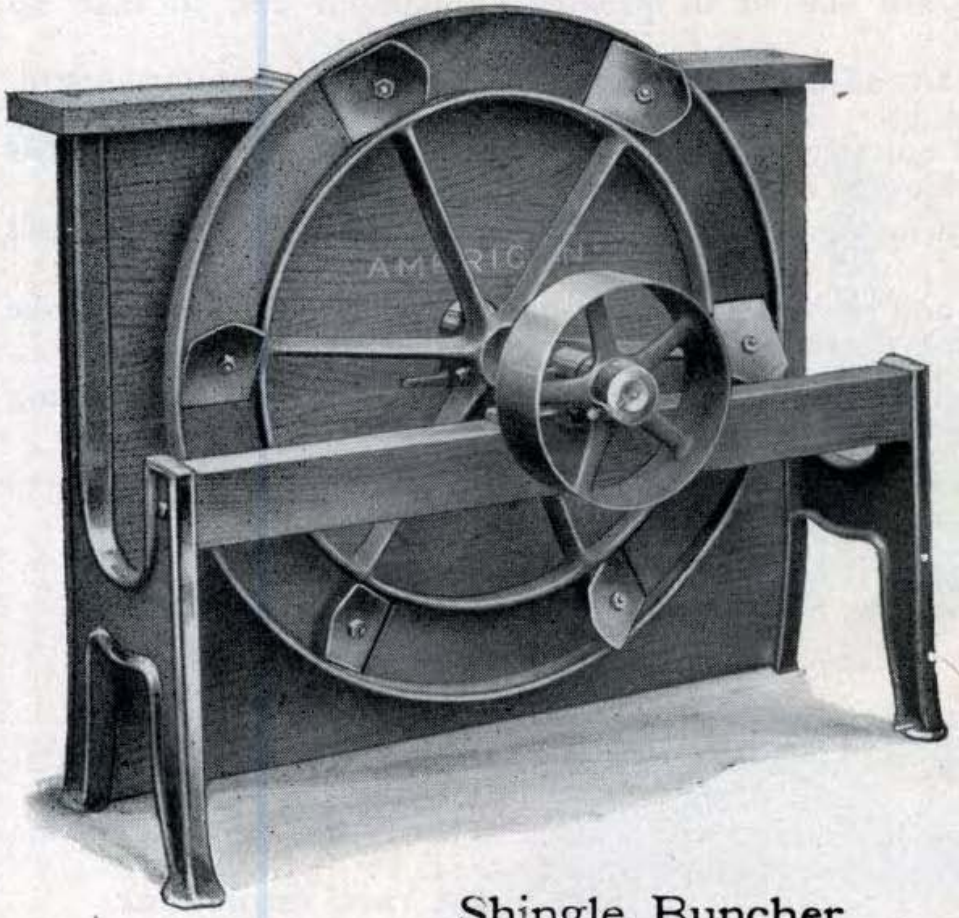


This Cut Shows the Edger

Dimensions :

Frame, 7′ long, 2′5″ wide.
Carriage, 3′8″ long, 13″ wide. Power feed, 24″.
Main Mandrel, $1\frac{7}{16}$″. Driving Pulley, 6″x6″.
Weight, with edger, net, 625 lbs.; gross, 750 lbs.
Power required, 4 to 8 H. P.
Speed of 24″ Saw about 1,200 revolutions.
Price with Edger, $115.00.
Code name, **"Shing."**
Price without Edger, $100.00.
Code name, **"Shindy."**
36″ Bolting Saw, extra, **$28.00.**
For making Machine to cut 36″ long, extra **$15.00.**
For 75 lb. Balance Wheel on Mandrel, extra **$6.00.**

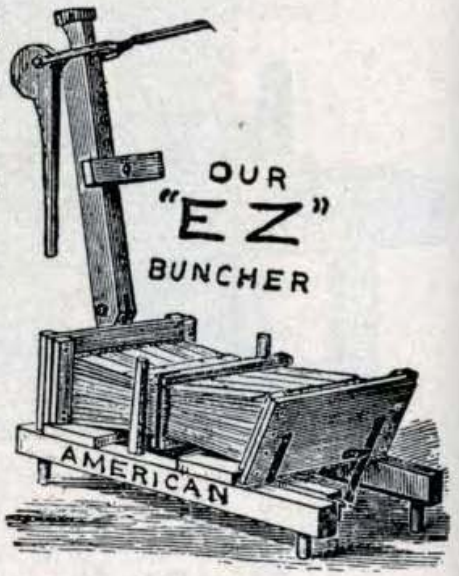
American Rotary Shingle Jointer



This cut shows a rear view of our **Rotary Six-Knife Jointer** for use in jointing or edging shingles, barrel heading and any other work of a similar nature. It consists of a 40 inch disc wheel with steel knives set in, fitted to steel shaft with babbitted boxes and driving pulley, all mounted on substantial frame with solid cast iron end pieces. This machine will joint stock up to 24 inches long. Furnished complete as shown, or where purchaser desires to construct his own wood frame we will supply the iron work only. Driving pulley, 12 inches by 4 inches, should run 500 r. p. m.

Weight, complete, 375 lbs.
Price **$60.00**
Code name, **"Shiny."**

Weight, iron parts only, without legs, 200 lbs.
Price **$48.00**



Shingle Buncher

This cut shows a very simple, yet effective **Shingle Packer.**

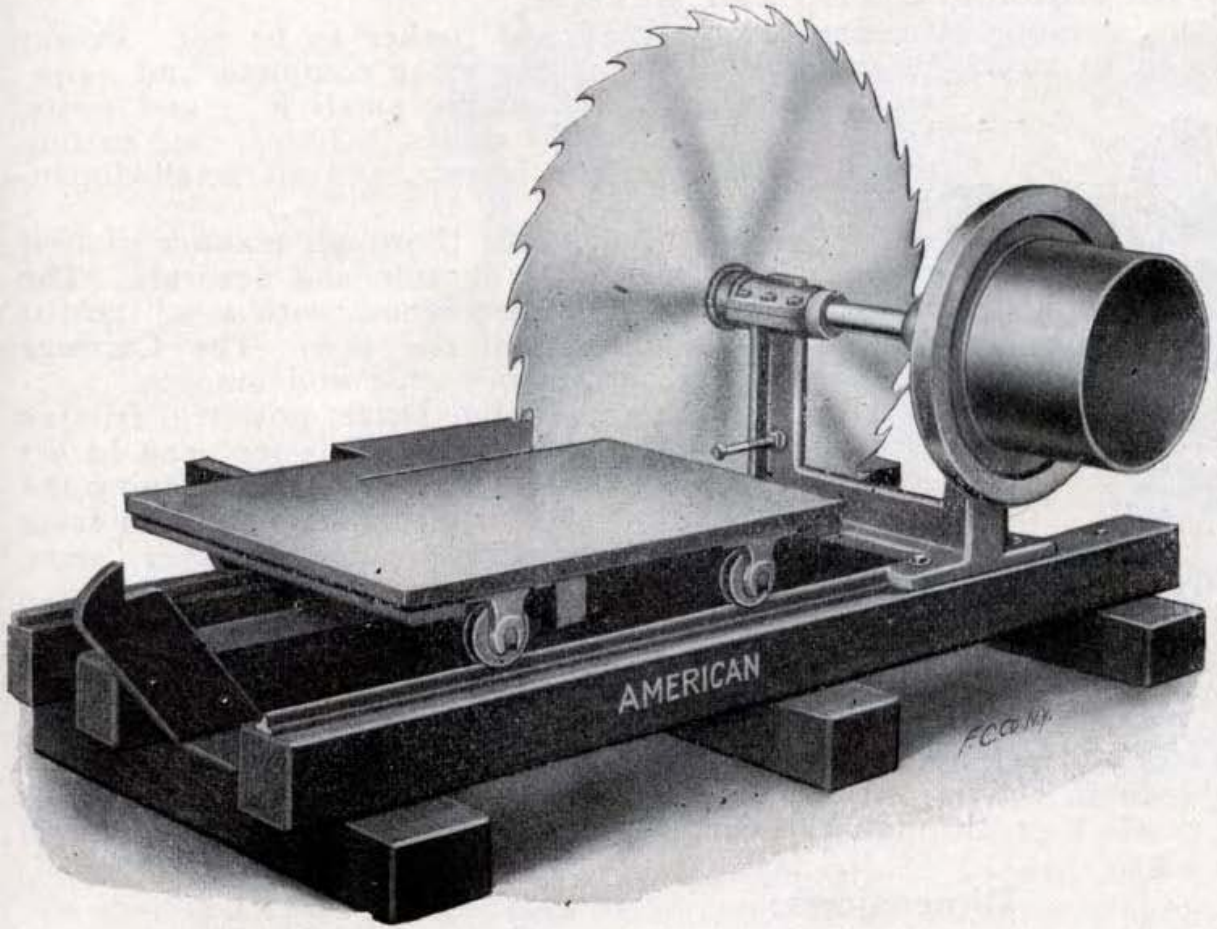
One movement of the lever presses the bunch and holds it securely while the straps are put on.

Floor space required, 3 feet by 4 feet. Weight, 80 lbs.

Size of bunch, 20 inches wide by 30 inches long.

Price, $10.00. Code name, **"Shining."**

American Knee Feed Bolter



This machine is strongly constructed throughout. **The Mandrel** is $2\frac{7}{16}$ inch diameter made to fit a saw with 2 inch hole and two $\frac{5}{8}$ inch pin holes on 3 inch circle. It is supported by a very heavy cast iron frame. The bearings are $8\frac{1}{2}$ inches long.

The Pulley weighs 215 lbs., is 16 inch diameter, 10 inch face with flange 24 inch diameter to serve as a fly wheel. Pulley and fly wheel are turned inside and out to insure perfect balance.

The Carriage is 32 inches by 40 inches with four chair trucks, the wheels on one side being grooved to fit a guide track, the other side having flat faced wheels and flat track.

Saws from 30 inch to 50 inch diameter may be used.

Weight, Irons only, 450 lbs.
Weight complete (without Saw), 960 lbs.
Floor space required, 7′6″ by 4′6″.

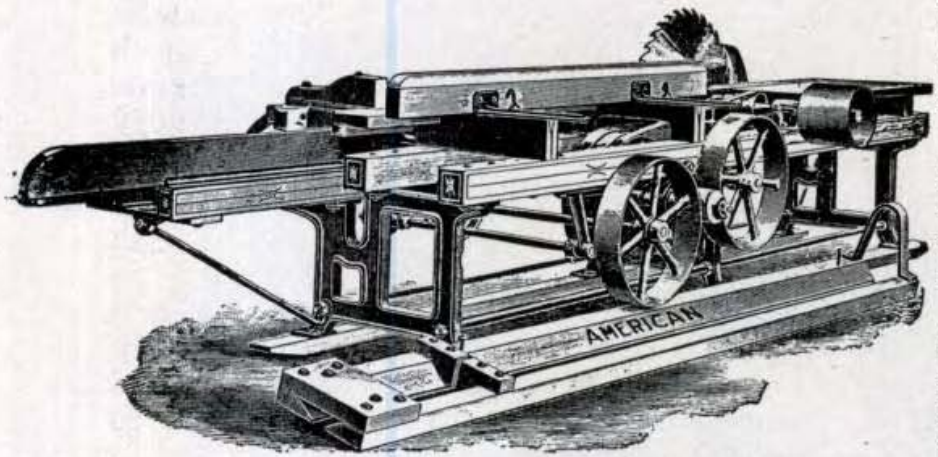
Price Complete (without Saw)	**$110.00**
Price without Wood Work and Bolts	**80.00**
Price Mandrel with Pulley and Stand.	**65.00**

Code name, **"Bolting."**

American Self-Feed Bolter and Slat Saw

With Automatic Trip and Reverse

Speed 800 to 1,200 revolutions, varying with size of saw used and timber to be cut. Power required, 8 to 15 H. P. steam; 10 to 20 H. P. gasoline. One of the most complete and satisfactory machines for sawing small logs and posts, bolting stock for lath, handles, bobbins, etc., cutting out slats, pickets, box boards, and all small dimension stock.



It is constructed in a thorough manner of best material and is strong, durable and accurate. **The Frame** is of iron and hard wood, with a substantial adjustable guide back of the saw. **The Carriage** runs on iron track, planed true and smooth.

It has **Rack and Pinion Drive,** powerful friction feed and rapid return motion. This feed can be set so that it will **trip at any desired Point,** keeping the carriage in motion and **requiring no Attention from the Operator.** The operator may, however, start, stop or reverse the feed instantly by simply moving the feed lever.

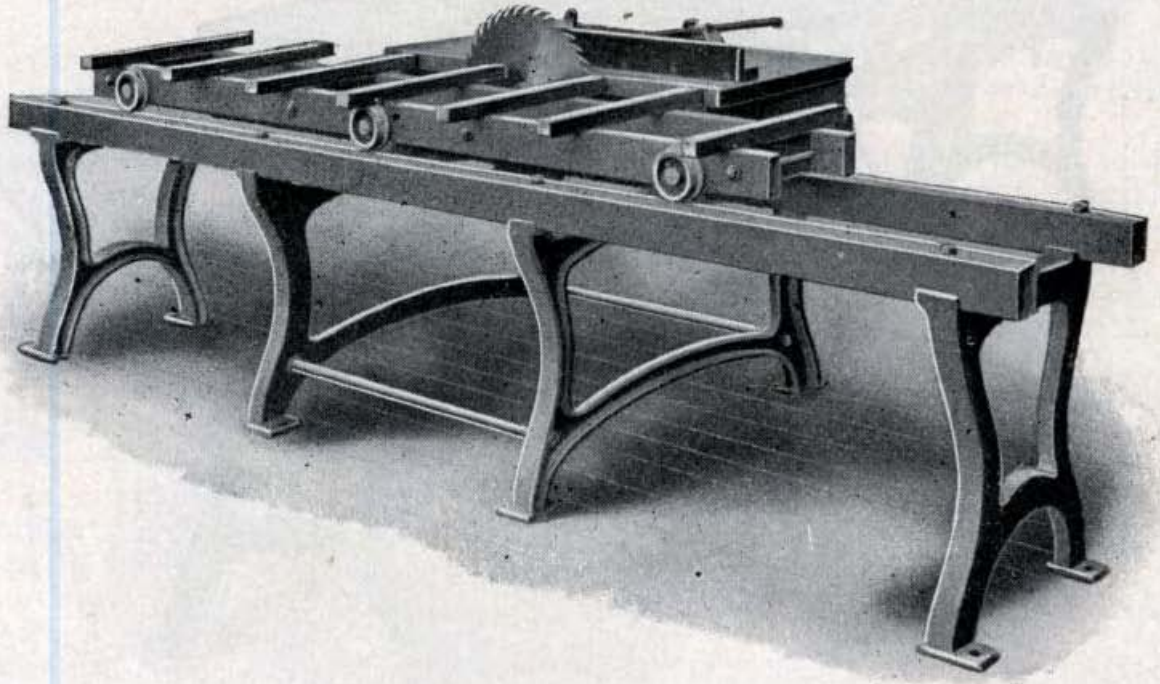
The Mandrel is steel $1\frac{15}{16}$ inch diameter, and runs in three substantial bearings. The mandrel pulley is usually 10 inches by 9 inches, but other sizes can be furnished if desired. Saws must have $1\frac{5}{8}$ inch hole and a half inch lug pin hole. **No. 1 Machine** is supplied with a 30 inch saw and **No. 2** with a 36 inch saw.

No. 1 Machine will handle stock 6 feet long, and **No. 2** will saw a stick of 8 feet long.

The splitting attachment shown in cut, is only furnished on order and at extra cost. It is used only to split posts and small logs through the center and, as it is shaped like a trough, it is not necessary to hold the logs.

Dimensions:	No. 1	No. 2
Length of Carriage	6′	8′
Length Main Timbers in Frame	12′	16′
Width of Machine over all	61″	61″
Floor space required	61″x 18′	61″x 22′
Length of Mandrel	32″	32″
Weight complete, about	1450 lbs.	1650 lbs.
Weight of Splitting Attachment	200 lbs.	200 lbs.
Price with Self-Trip and Saw	**$175.00**	**$200.00**
Price Splitting Attachment, extra	20.00	20.00
Price for Tight and Loose Pulleys, extra	10.00	10.00
Code Names	"Bolder"	"Boldest"

American Hand-Feed Bolter



This machine is intended to meet the wants of those requiring a good machine at a low price for bolting shingle stock, sawing small short logs into fence posts, box boards, pickets, staves, spool, bobbin or handle stock. It is strong and well made and has an **Adjustable Ripping Gauge.** Carries any size saw from 20 to 36 inches. **Carriage** and **Track** can be longer or shorter as desired. **Power Feed** can be fitted at small cost.

Carriage 12 inches wide, 4 feet long of 2 inch by 4 inch timbers with steel axles and 4 inch flanged truck wheels. Steel mandrel $1\frac{7}{16}$ inches with 6 inch by 6 inch pulley. Speed about 1,400 revolutions per minute. Track timbers, 3½ inch by 3½ inch by 10 feet long. Floor space, 5 feet by 10 feet. Weight, net, 650 pounds. Gross, 850 pounds.

Price, with 24 inch saw, **$90.00.** Code name, **"Bolty."** All iron parts and saw, no legs, **$40.00.**

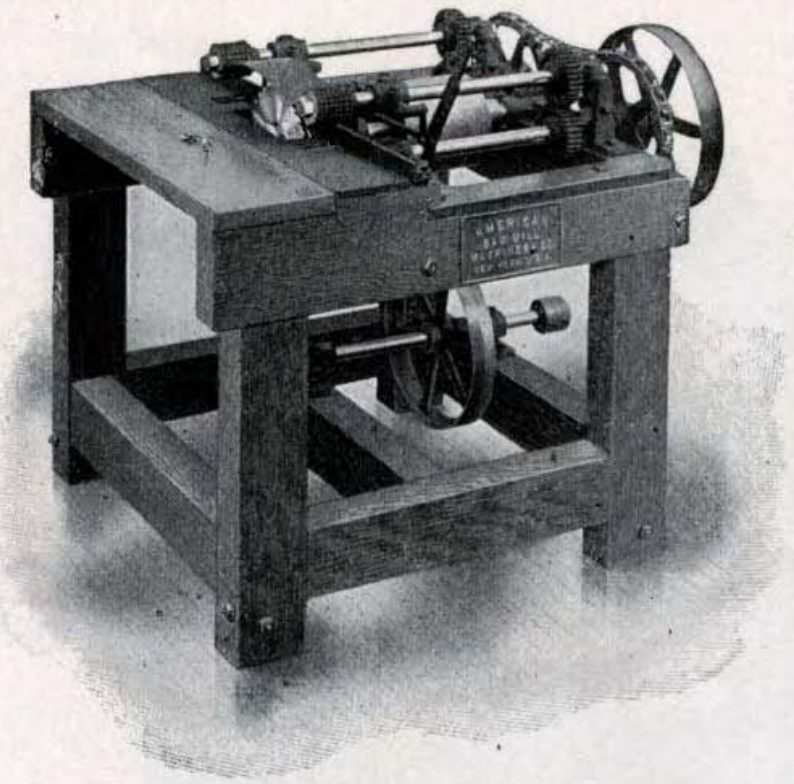
American Power Feed Bolter

This machine is similar in construction and dimensions to our **Hand Feed Bolter,** with the addition of **Power Feed** and **Automatic Trip.** The stop may be set for short or long stroke. The carriage made solid with handy dogs to hold round timber. A **Belt and Cable Feed** moves carriage.

Carriage 4 feet long with 4 inch trucks and steel axles. Mandrel $1\frac{7}{16}$ inches with 6 inch by 6 inch pulley, speed 1,200 to 1,400 revolutions per minute, depending on size of saw. Track timbers $3\frac{1}{2}$ inches by $3\frac{1}{2}$ inches, 10 feet long; floor space 5 feet by 10 feet; weight, net 865 pounds; gross 1,065 pounds. Track can be made of steel T rail at extra cost if so ordered.

Price with 24 inch Saw, $130.00. Code name, **"Bolster."** All iron parts and saw, no legs, **$75.00.**

American Gang Lath Machine



This cut shows our **Improved Gang Lath Mill,** which is the same construction as the combined machine without the bolter.

The Mandrel is of the best grade steel, turned and polished and runs in babbitted boxes and may be fitted for any number of saws, from three to six, as may be ordered, but usually only three saws are furnished.

Springs are provided for regulating the pressure of the rolls on the stock, and the tension may be changed as desired.

Changing Saws is very easily and rapidly done by removing a section of the table.

Burning Saws is prevented by a lever which raises both top feed rolls, permitting the stock to be drawn back. **It is Important to Always Keep the Saws Sharp and Set.**

The Machine can be fitted to cut pickets, chair stock or any small squares from 1¼ inches by 1¼ inches up to 2 inches by 2 inches for which extra charge will be made.

Capacity 30,000 to 40,000 Laths Per Day

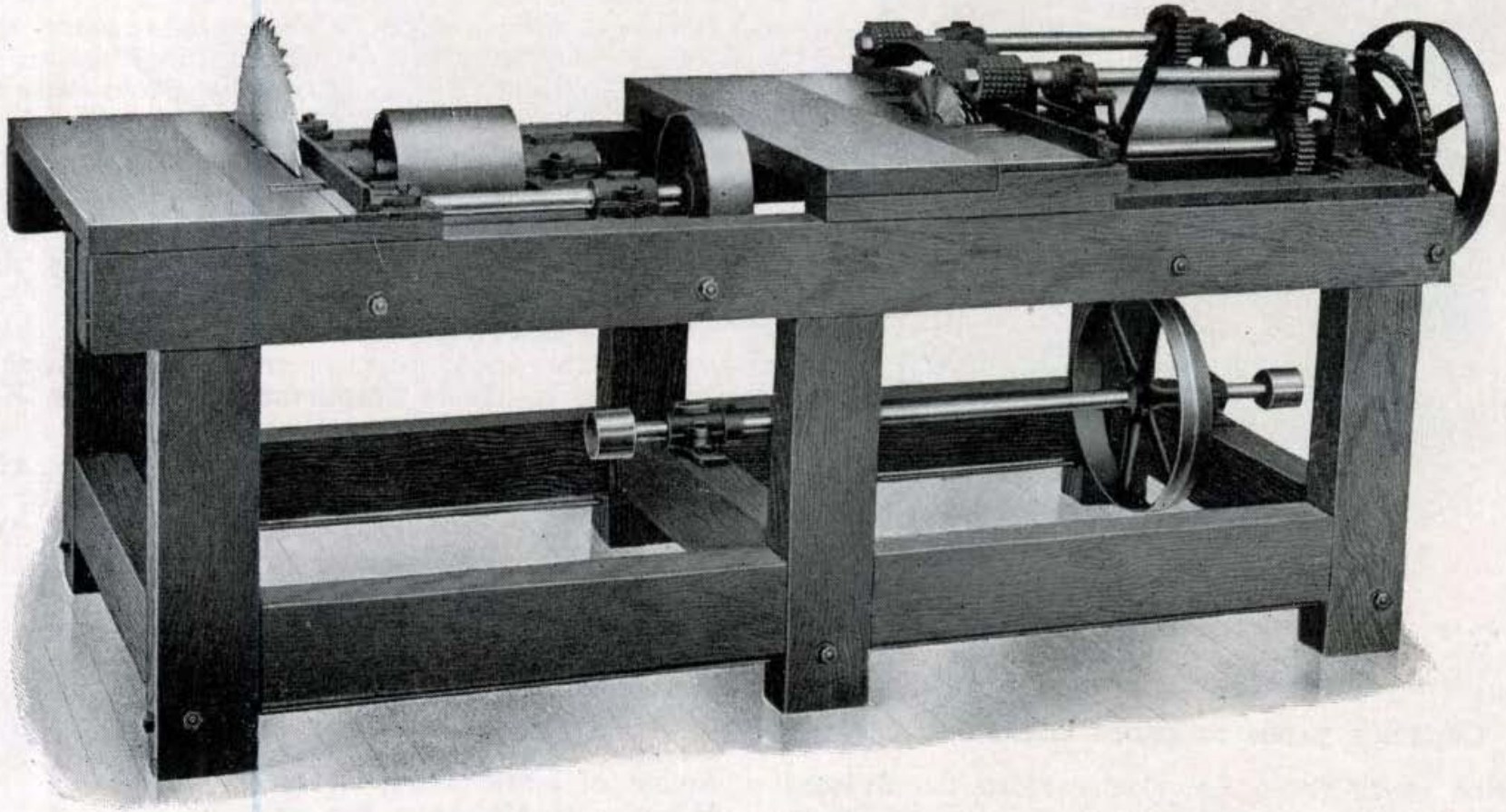
Price (with three Saws)	**$130.00**
Price (with four Saws).....	**134.00**
Price (with five Saws).....	**138.00**
Price (with six Saws)	**142.00**

Dimensions:

Frame, 37″ long, 37″ wide, 27″ high.
Lath Saws, 10″.
Driving Pulley on Mandrel, 8″x8″.
Speed of Lath Saws, 2,700.
Weight of Machine, net, 675 lbs.
Weight, packed for export, gross, 800 lbs.
Cubic measurement, about 25 cubic feet.

Code name, **"Lather."**

American Combined Lath Mill and Bolter



Code Name, **"Lathered."**

American Combined Lath Mill and Bolter

This cut shows our **Combined Lath Mill and Bolter,** which is one of the best machines of the kind on the market, and is very popular with saw mill men in every part of the country.

The Frame is made of hard wood, mortised and tenoned, and securely bolted together, making it very substantial and durable.

The Arbors are of the best grade steel, run in self-oiling boxes which are cast solid with the iron husk frame, to which all the working parts are attached, thereby keeping everything in line and avoiding the heating of the bearings.

The Lath Mill is fitted with two sets of power feed rolls, one set in front and one behind the saws.

Springs are provided for regulating the pressure of the rolls on the stock, and the tension may be changed as desired. The arbor of the Lath Mill may be fitted for any number of saws, from three to six, as may be ordered, but usually only three saws are furnished.

Changing Saws is very easily and rapidly done by removing a section of the table.

Burning Saws is prevented by a lever which raises both top feed rolls, permitting the stock to be drawn back, as it is impossible to prevent the stock becoming occasionally wedged in the saws, before the machine can be stopped. For this reason it is important to always keep the **Saws Sharp and Set.** Capacity 30,000 to 50,000 **lath per day.**

The Bolter is furnished with one wide Feed Roll. **The Guide** is adjustable, and can be instantly set for any width required. Pressure Roll furnished for Bolter when desired at small additional cost.

Dimensions and Prices:

Frame, 8′ long, 37″ wide, 27″ high.
Lath Saws, 10″. Bolter Saw, 22″.
Driving Pulley on each Mandrel, 8″x 8″.
Speed of Lath Saws, 2,700; Bolter Saw, 1,400.
Weight of Combined Machine, net, 1,050 lbs.
Weight packed for export, gross, 1,350 lbs.
Cubic measurement, about 40 cubic feet.

Price Complete (with three lath saws and bolting saw) **$200.00**

Price Complete (with four lath saws and bolting saw) **$204.00**

Price Complete (with five lath saws and bolting saw) **$208.00**

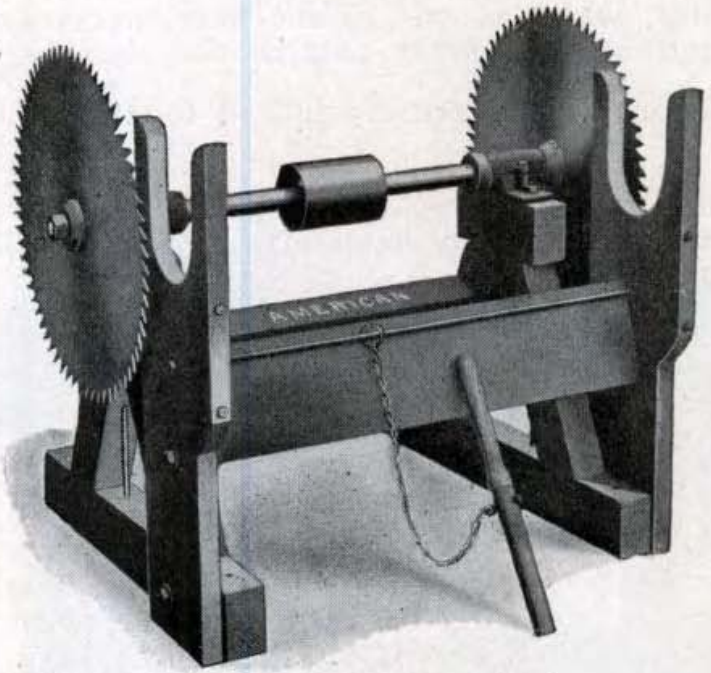
Price Complete (with six lath saws and bolting saw) **$212.00**

Price, Pressure Roll for Bolter **10.00**

Extra, 12 Gauge Lath Saws, each..... **2.90**

Extra Collars, each ..... **.60**

Lath Binder and Trimmer

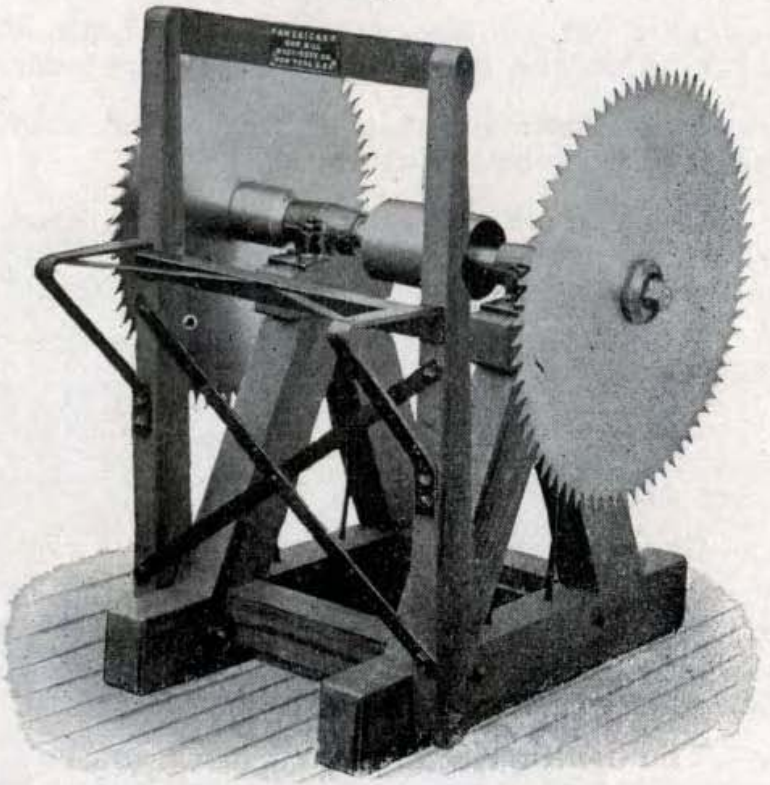


A simple yet very complete and well made machine with which the operator can bundle, bind and trim laths as rapidly and easily as with any on the market.

The Chain is drawn tightly around the bundle and securely held by the lever, which has one end under the bundle and the other in the operator's hand. Then the cradle is moved forward to the saws, trimming both ends of the bundle at once. **Mandrel** is $1\frac{15}{16}$ inches by $4\frac{1}{2}$ feet long, with 6 by 9 inch driving pulley. Weight 375 pounds. Speed No. 1, 1,500; No. 2, 1,200 r. p. m.

Price No. 1 with two 24" saws for 50 lath, **$75.00.**
Price No. 2 with two 30" saws for 100 lath, **$90.00.**

Bolt Equalizer

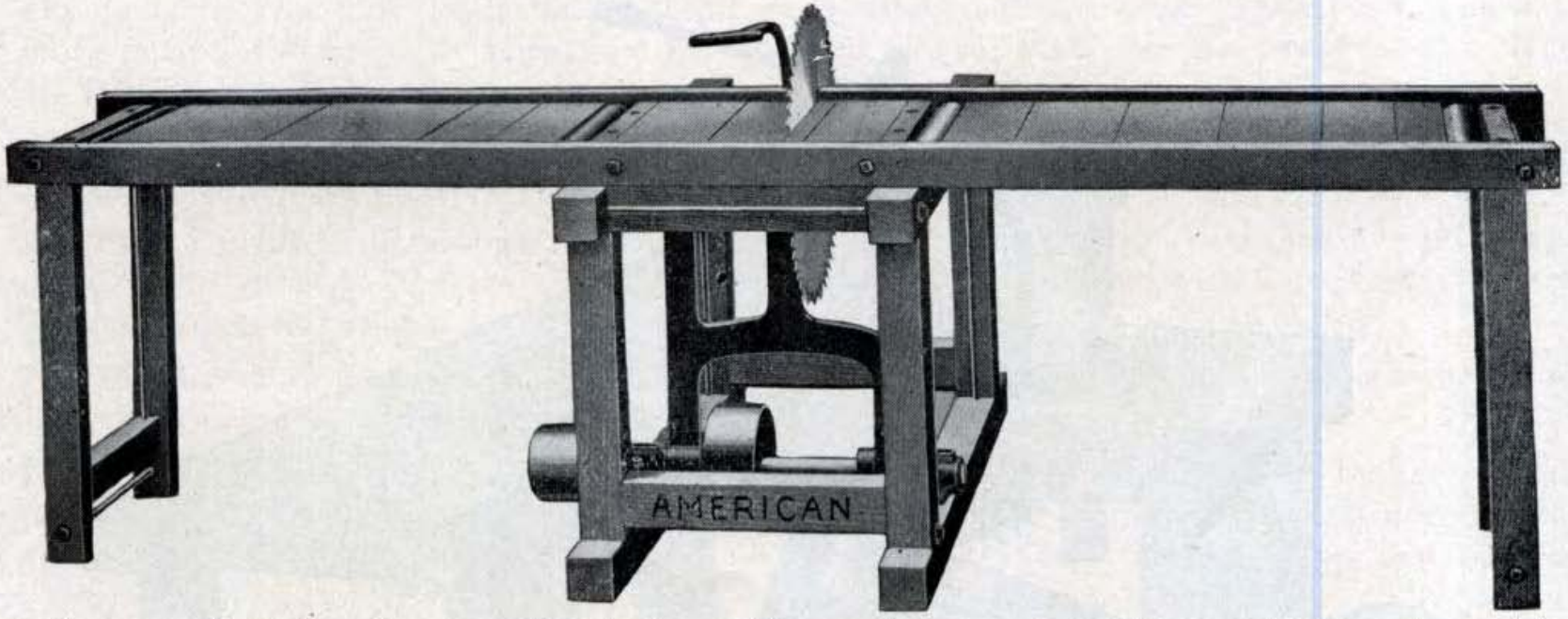


This cut shows our **Bolt Equalizer** which is used for equalizing the length of bolts. It has self oiling boxes, steel mandrel and two 30 inch solid saws. The mandrel is so made that the distance beween the saws may be varied from 28 inches up to 34 inches.

The mandrel pulley is 6 inches by 9 inches and should run 1,200 revolutions per minute. Saws from 28 inches to 36 inches may be used. Weight, 350 pounds.

Price with two 30 inch saws, **$100.00.** Code name, **"Stable."**

American "Perfection" Cut-Off Saw Table



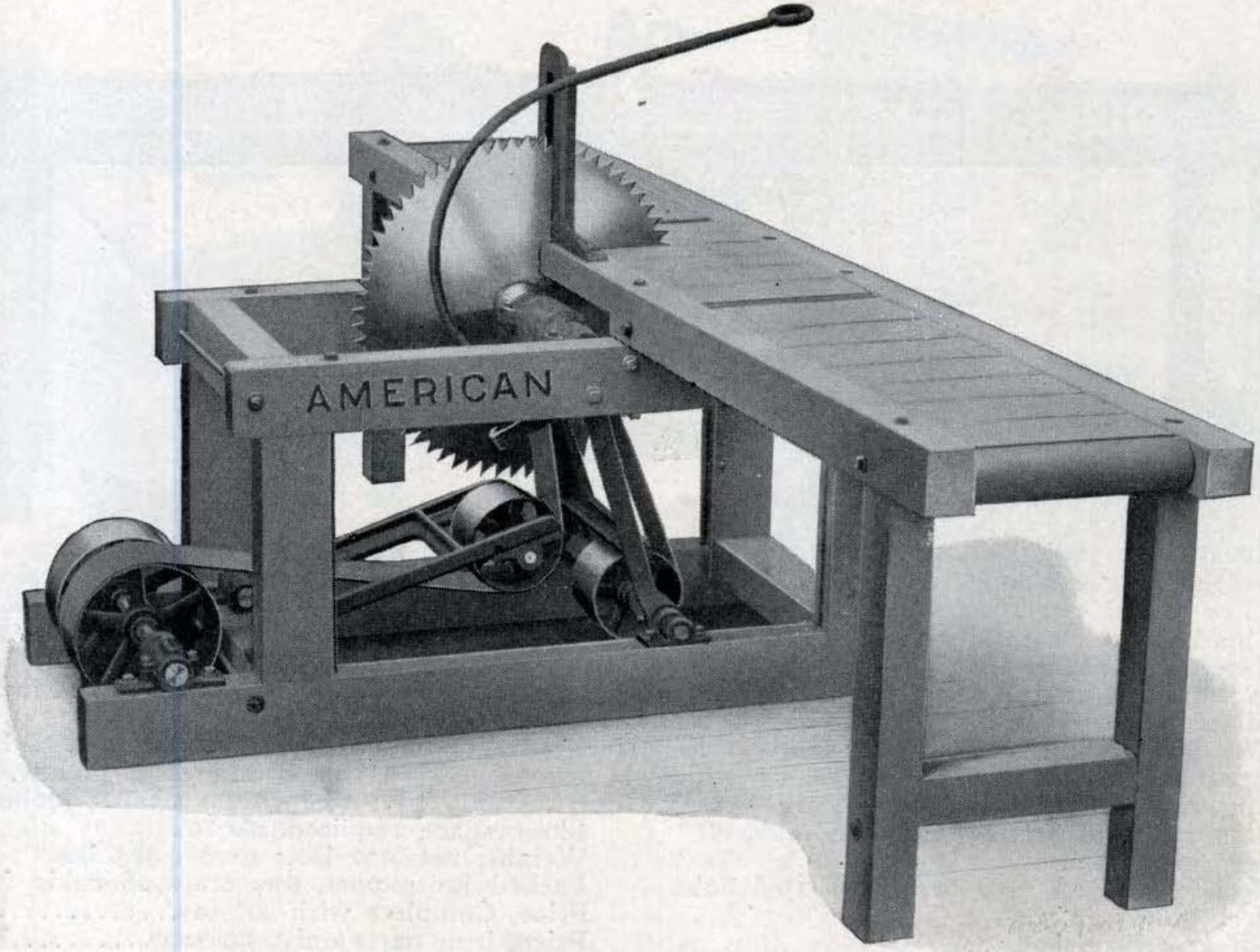
Every well equipped saw mill, planing mill, or other wood-working establishment must have one or more cut-off saws, either of the swinging or table type. To meet the increasing demand for a low priced, yet **good** machine of the latter type, we offer our **"Perfection" Table Cut-off Saw.**

This has been carefully designed and is well made throughout of best materials and workmanship. **The Frame** is made of seasoned hard wood strongly bolted together, the table is 20 inches wide and 10 feet long, being fitted with four 3 inch idle rolls and a guide rail at the rear providing for easy handling of timber and accurate cutting.

The Mandrel is of best grade cold rolled steel, runs in babbited boxes and is carried in a strong, solid cast iron, swinging frame which is trunnioned to the countershaft below, thus insuring rigidity and durability. Any size saw can be used from 18 inches up to 24 inches.

Timbers in main frame, 3½"x 3½".
Timbers in table frame, 2"x 4".
Mandrel (steel), $1\frac{7}{16}$" for saws with 1¼" hole.
Mandrel pulley, 4"x 4".
Size of saw furnished, 20".
Pulley on countershaft, 6"x 6", speed 700 rev.
Floor space required, 4'x 10'.
Weight, net, 430 lbs.; gross, 575 lbs.
Packed for export, one crate 28 cubic feet.
Price, Complete with 20" saw.....**$70.00**
Price, iron parts only, no saw.....**$35.00**
Code word, **"Sawts."**

American "New Model" Cut-Off Saw Table



Code Name, **"Sawup."**

American "New Model" Cut-Off Saw Table

The popularity of our Perfection Cut-Off Saw Table and the large demand for a heavier and more powerful machine of same type has induced us to place on the market our **"New Model" Cut-Off Saw Table.**

It is adapted to use in saw and planing mills or any wood-working establishment and will handle any lumber from boards up to dimension stock 6 inches by 14 inches.

The Frame is made of seasoned yellow pine or other hard wood, accurately framed and strongly bolted together. The table is 20 inches wide, 12 feet long, fitted with four 4-inch rolls and a substantial guide rail at rear to insure rapid, easy handling and accurate sawing.

The Mandrel is of best grade, cold rolled steel, runs in babitted boxes in a substantial, solid, cast-iron, swinging frame which is drawn forward by strong, iron handle.

The Countershaft is placed well back at rear of frame, allowing the use of a long drive belt which is kept tight by means of an idler pulley in an iron frame. This arrangement prevents the belt from slipping and insures a strong, positive drive to the saw. Any size saw can be used from 18 inches to 32 inches.

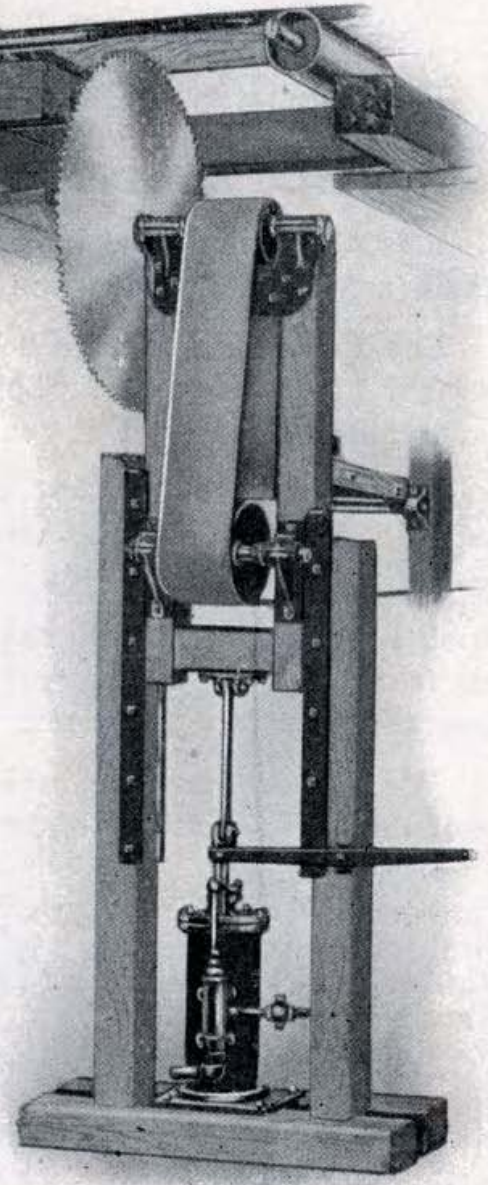
We are prepared to build on order, a larger machine of the same general design but very much heavier, suitable to carry saws up to 42 inches in diameter.

Timbers in main frame 3½"x 5½".
Timbers in table frame 3½"x 3½".
Mandrel 1 1/16" fitted for saws with 1¼" hole.
Mandrel Pulley 4"x 6".
Size of Saw furnished 30".

Pulley on Countershaft 12"x 6", speed 350 r. p. m.
Floor space required 12'x 6'.
Weight, net 985 lbs.; gross 1,150 lbs.
Packed for export, 78 cubic feet.
Weight, iron parts only, 365 lbs.

Price, Complete with Saw (no belt) **$130.00**
Price, Iron Parts only, no Saw **70.00**
Price. Heavier Machine to carry up to 42 inch Saw **175.00**

American Steam Jump Saw



This is the most desirable type of **Cut-off Saw** for large mills. It is usually placed at some point in the line of live rolls, the saw being raised up vertically by steam cylinder which has the valves so constructed as to avoid all jar or danger to the cylinder. The valves are controlled by a foot treadle and the operator can stop the saw at any point.

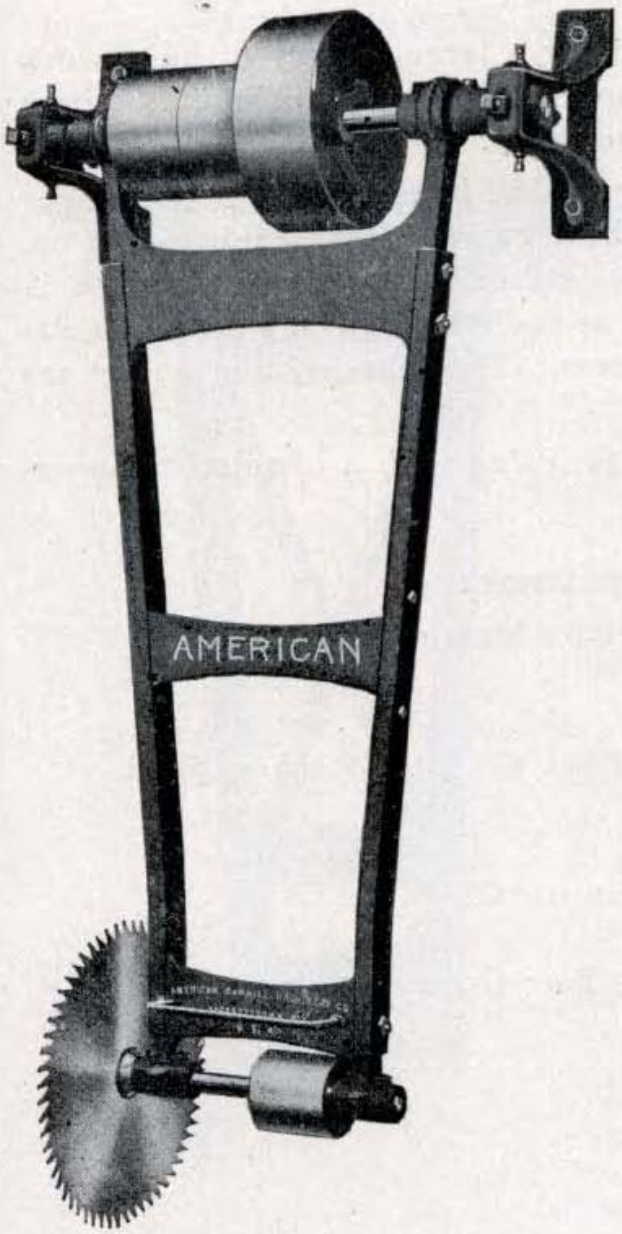
We can furnish this saw in several sizes with either wood or iron frame, as may be ordered, to carry any size saw up to 60 inches.

The mandrels are heavily yoked and made either right or left hand as desired. Saws should **always** revolve **away from** the operator.

Furnished complete as shown or with iron parts only as preferred. Iron parts comprise steam cylinder with check valve for exhaust, two wrought iron strap joints and cast iron plate for connecting rod; two countershafts with boxes and set collars; two pulleys and yoke mandrel.

Price List of Iron Parts	For Wood Frame		For Iron Frame	
	Weight	Price	Weight	Price
6″ Cylinder for Saws up to 30″	600	$144.00	1200	$190.00
8″ " " " " 48″	800	162.00	1350	208.00
8″ " " " " 60″	1000	180.00	1800	224.00
10″ " " " of any size	1200	198.00	1900	243.00
If Wood Frame is also wanted add	400	20.00	.....	.....
Code Name (give size wanted)		Jumper		Jumping

American Swing Cut-Off Saws, A and B



In this **Swing Saw** we have combined lightness, strength, rigidity, and low cost, thus producing a machine that meets the requirements of any one needing a cut-off saw of this type.

The Frame is a combination of cast iron and steel channels, so braced as to prevent springing or twisting. It swings on independent trunnions which are attached to the hangers, thus relieving the countershaft and bearings of all strain. **The Countershaft** is so arranged that it may be suspended from the ceiling or fastened to wall.

The Mandrel is of the best steel, and runs in self-oiling babbitted bearings, which are cast solid with the lower frame, thus insuring perfect alignment and easy running.

To provide for the wear of the saw and permit the use of larger or smaller saws, the lower frame which carries the mandrel has a **vertical adjustment** of 4 inches, which is a very valuable feature. Ample provision is made for taking up wear and lost motion in all working parts.

Shorter or longer frames can be furnished to meet the requirements of purchaser.

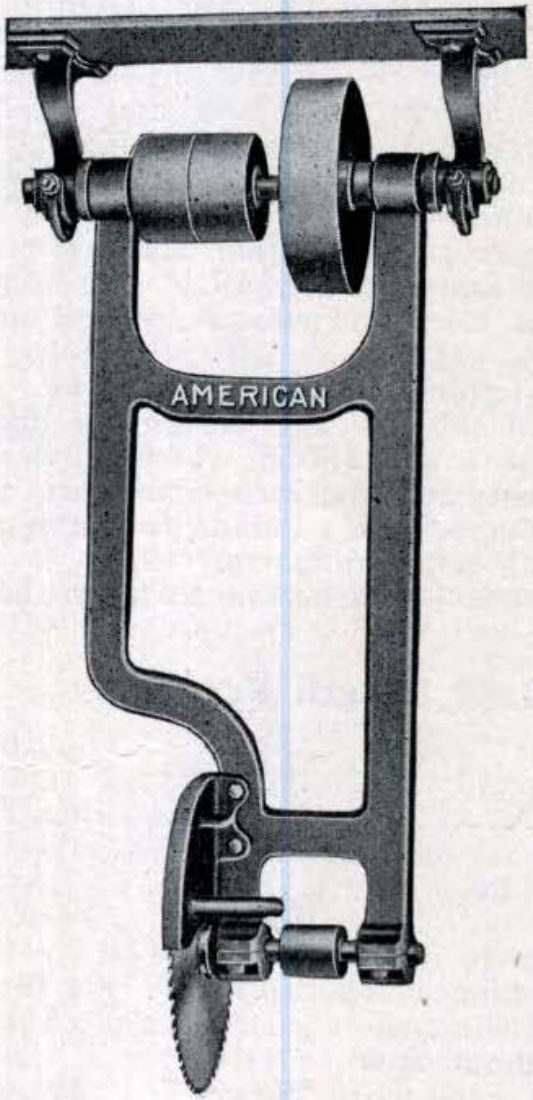
Dimensions of Standard Length Frame

From Countershaft to Mandrel ..... 6′
Diameter of Countershaft ..... $1\frac{11}{16}$″
Driving Pulley ..... 16″ x 6″
Tight and Loose Pulleys ..... 10″ x 6″
Revolutions per minute 650
Mandrel, $1\frac{7}{16}$″, with Pulley ..... 6″ x 6″
Any size saw may be used up to 30″ with $1\frac{1}{4}$″ hole.
Net Weight of Standard Machine ..... 382 lbs.
Gross Weight, 547 lbs. Boxed dimensions... 6′ 8″ x 2′ 9″ x 1′ 1″

Price without Saw.

Style A, plain as shown in cut, code word **"Sawce"** **$60.00**
Style B, with counterbalance, code word **"Sawbo"** **70.00**
Saw Guard is furnished with each machine.

American Light Swing Saw "C"



This machine can be used for a large variety of light work and is especially useful in wood working establishments where a large heavy frame is unnecessary.

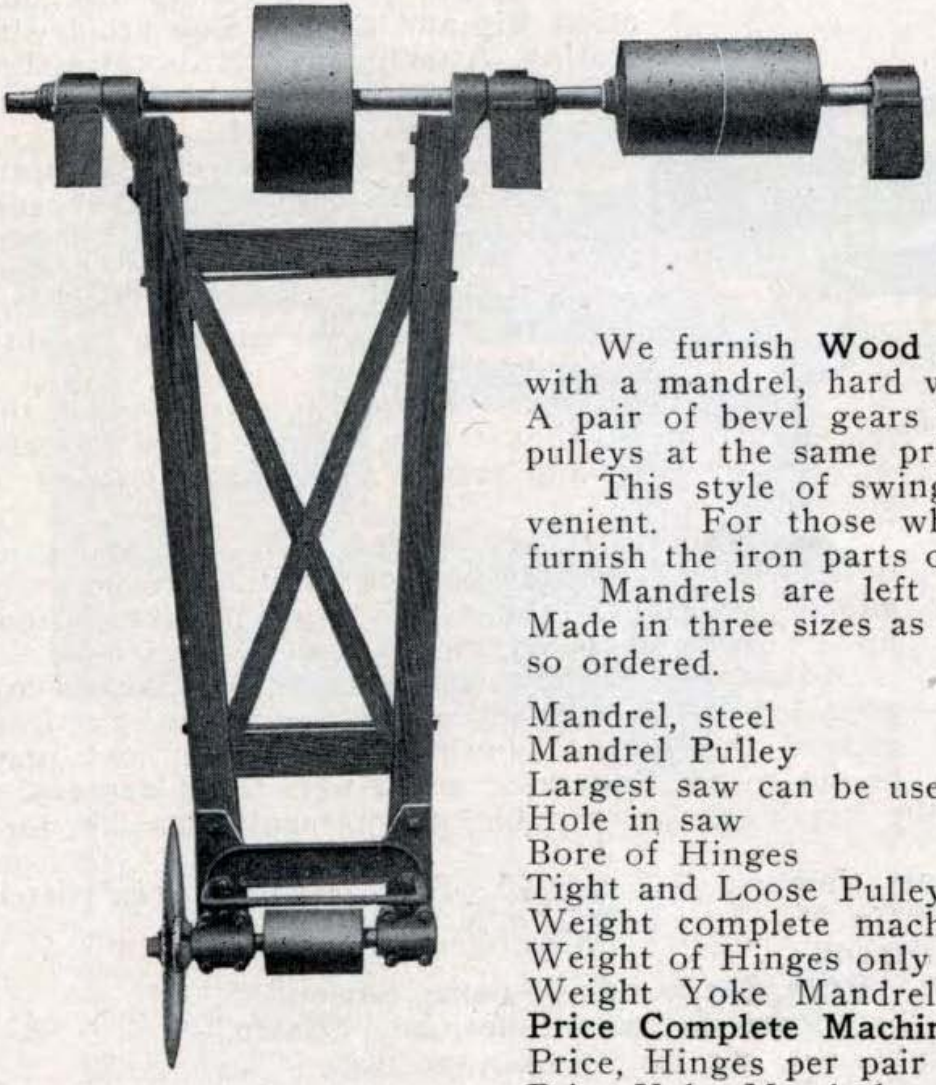
The length of frame is such that it may be suspended over an ordinary work bench. The **Frame** is of solid cast iron, strong and very rigid. None of the weight of the frame is borne by the shaft or bearing as the frame swings on trunnions which are carried by the hangers. The mandrel and pulley are turned from solid steel.

The **Shield** for the saw is provided with a handle for operating the frame.

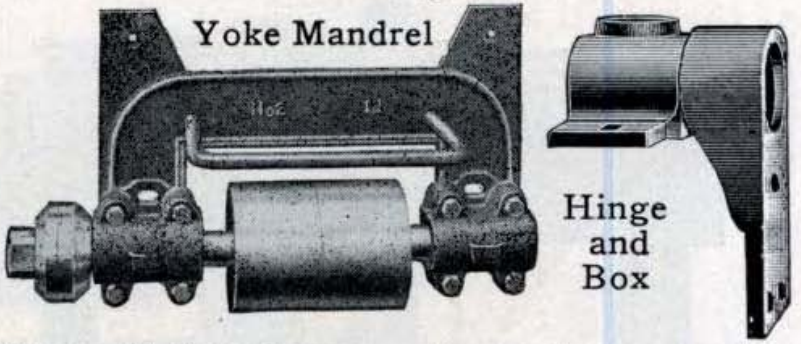
Dimensions :

Length from Countershaft to Mandrel, 3′ 6″.
Drop of Hangers, 8″.
Diameter of Countershaft, $1\frac{7}{16}$″.
Tight and Loose pulleys, 6″x 3″. Speed 450 r. p. m.
Drive pulley, 12″x 3″.
Mandrel Pulley, 3″x 3″.
Takes Saws with 1″ hole up to 16″.
Shipping weight, 200 lbs.
Packed for Export, net 175 lbs.; Gross, 250 lbs.
Space required 8 c. f.
Price without saw, **$40.00.**
Code name, **"Sawga."**

Wood Frame Swing Saw



Mandrel and Hinges for Swing Saw



We furnish **Wood Frame Swing Saws** as shown here complete with a mandrel, hard wood frame, hinges, boxes, shaft and pulleys. A pair of bevel gears will be furnished instead of tight and loose pulleys at the same price, if preferred.

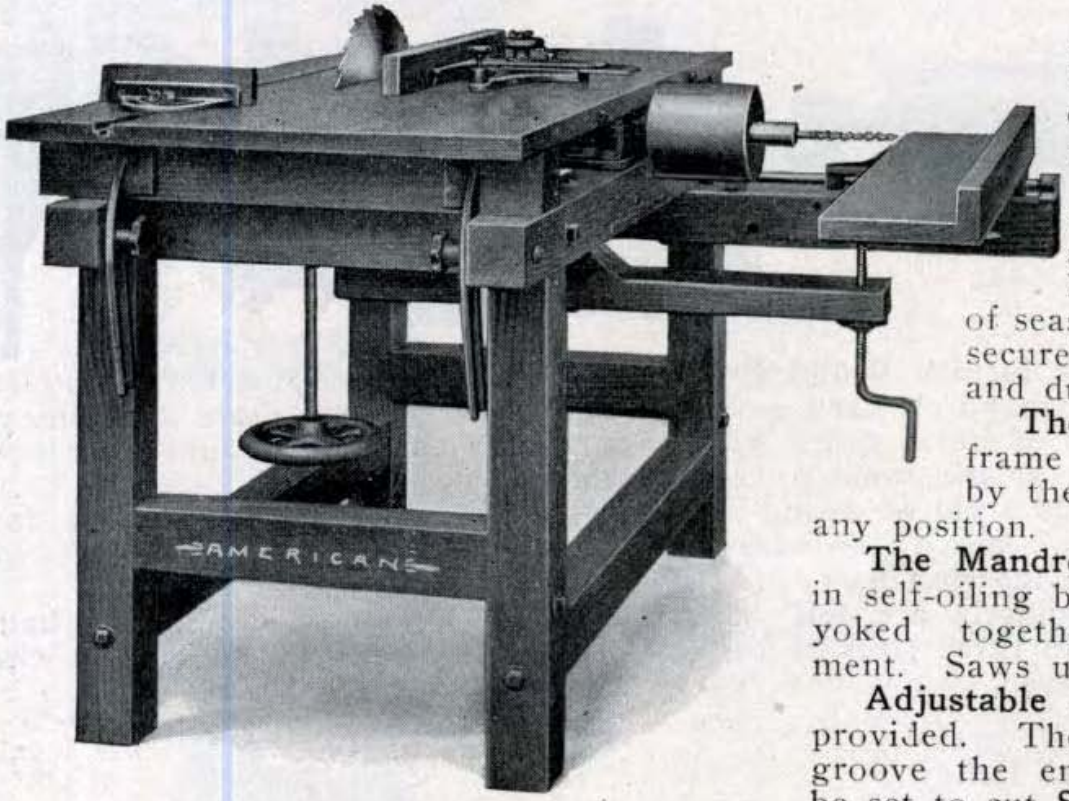
This style of swing saw can be fitted to any shaft that is convenient. For those who wish to make their own frames, we will furnish the iron parts only if desired.

Mandrels are left hand as shown unless ordered right hand. Made in three sizes as below. No. 3 Hinges bored $2\frac{7}{16}$ inches when so ordered.

	No. 1	**No. 2**	**No. 3**
Mandrel, steel	$1\frac{7}{16}$"x 22"	$1\frac{11}{16}$"x 24"	$1\frac{15}{16}$"x 24"
Mandrel Pulley	6"x 6"	6"x 8"	8"x 8"
Largest saw can be used	30"	36"	42"
Hole in saw	$1\frac{1}{4}$"	$1\frac{1}{2}$"	$1\frac{5}{8}$"
Bore of Hinges	$1\frac{15}{16}$"	$2\frac{3}{16}$"	$2\frac{3}{16}$"
Tight and Loose Pulleys	10"x 6"	10"x 8"	12"x 8"
Weight complete machine	350 lbs.	375 lbs.	450 lbs.
Weight of Hinges only	45 lbs.	50 lbs.	55 lbs.
Weight Yoke Mandrel only	62 lbs.	75 lbs.	100 lbs.
Price Complete Machine	**$60.00**	**$65.00**	**$70.00**
Price, Hinges per pair	12.00	12.50	14.00
Price Yoke Mandrel only	16.00	18.00	22.00

Code name complete machine **"Sawtry."** Irons only, **"Sawfly."** (Give size wanted.)

American "Combination" Saw Bench



This cut illustrates our **Combination Rip and Cut-off Saw** fitted with **Boring Attachment.** It is furnished either with or without the boring attachment as ordered.

The machine is strong, accurate and serviceable, embodying every desirable feature in a machine of this kind. It is well made throughout; of seasoned hard wood accurately fitted and securely bolted together, insuring rigidity and durability.

The Top is hinged to the rear of the frame so that it may be raised and lowered by the hand screw, and firmly clamped in any position.

The Mandrel is best cold rolled steel, and runs in self-oiling babbitted bearings which are securely yoked together, thus insuring perfect alignment. Saws up to 24 inches can be used.

Adjustable Ripping and Cutting-off Gauges are provided. The cut-off gauge works in an iron groove the entire length of the table, and may be set to cut **Square** or **any Angle to 45 degrees.**

One 16 inch rip saw is furnished with the machine. A suitable countershaft can be furnished at extra cost.

Table is 54″ x 30″, total height, 36″, Frame timbers, 3½″ x 3½″. Steel Mandrel, 1 7/16″ fitted for saws with 1¼″ hole. Mandrel Pulley, 6″ x 6″. Speed 1800 r. p. m.

Boring table travels 6″ and has 3½″ adjustment.

Weight, with Boring Attachment, 400 lbs. **Price, $85.00.** Code name, **Sawer."**

Weight, without Boring Attachment, 360 lbs. **Price, $70.00.** Code name, **"Sawn."**

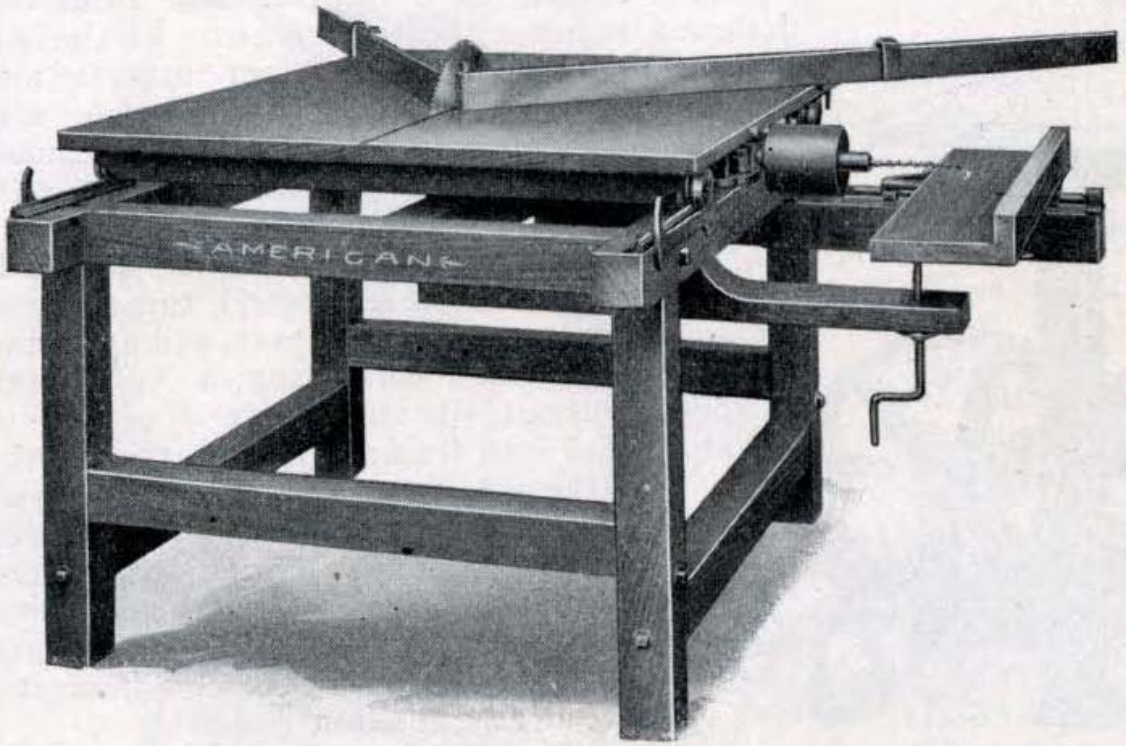
Packed for export, 23 cubic feet. Weight, net, 360 lbs.; gross, 475 lbs.

Weight of Boring Attachment, only 50 lbs. **Price,** (when ordered alone) **$18.00.**

Weight of Countershaft, 150 lbs. **Price, $16.00.**

Price, Ripping Gauge only, **$7.00.**

American Miter Saw



This machine is adapted to cutting all kinds of moulding and will cut accurately **any angle** from a **square** to a miter of **45 degrees.** Frame is made of seasoned hard wood, accurately fitted and nicely finished.

The Top is made of seasoned hard wood, glued together and secured to steel angles which prevent warping or splitting. It is 47 inches by 54 inches and mounted on anti-friction steel rollers which are carefully fitted to the guide tracks. It has a travel of 18 inches.

The Gauges are iron, 5 feet long, and support the work their entire length. They are fitted with stop gauges and are pivoted to the table, so that they may be easily adjusted.

The Mandrel is steel with 5″x 5″ pulley running in self-oiling boxes which are yoked together.

The Saw furnished with the machine is a 16 inch hollow ground miter saw with a 1¼ inch hole.

The machine is furnished **without** the boring attachment, unless specially ordered with it.

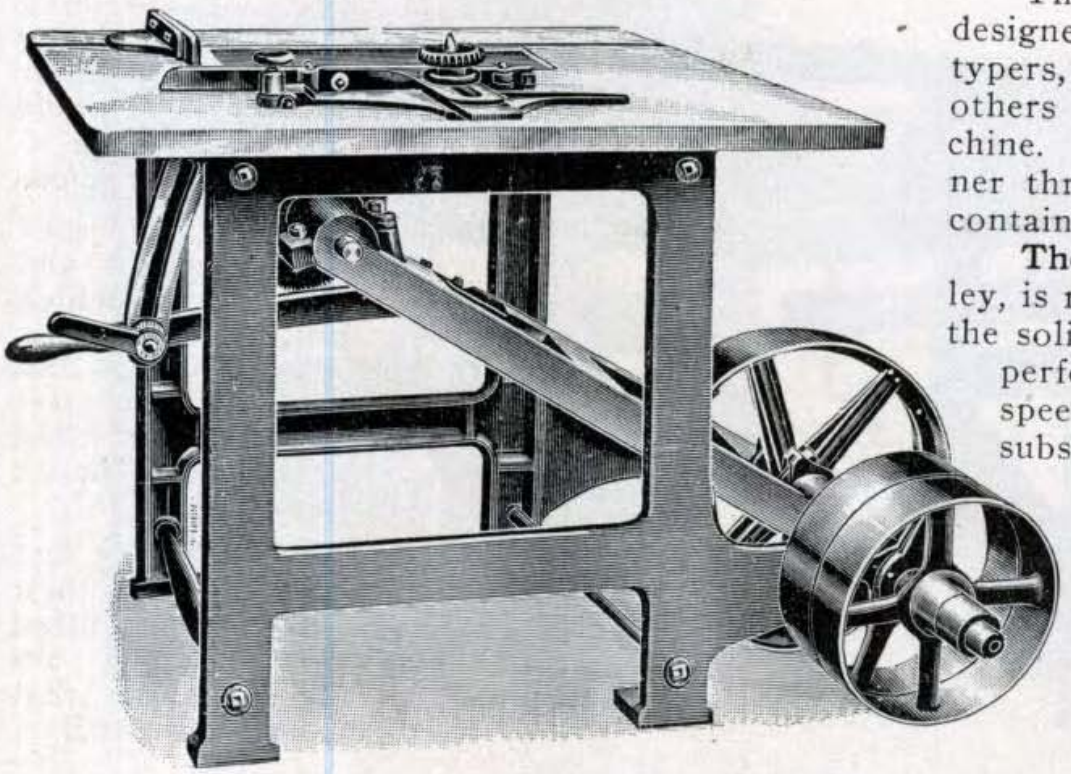
A countershaft is furnished which has 8″ x 4″ tight and loose pulleys which should run 450 r. p. m. Weight of countershaft, 150 lbs.

Miter Saw, without boring attachment, weight, 490 lbs. **Price, $78.00.** Code name, **"Sawly."**

Miter Saw, with boring attachment, weight, 540 lbs. **Price, $96.00.** Code name, **"Sawit."**

If countershaft is not wanted, deduct **$16.00** from above prices.

American Iron Frame "Precision" Saw Table



This cut shows our metal **Saw Table** designed to meet the requirements of electrotypers, metal workers, cabinet makers and others desiring a reliable and accurate machine. It is made in the most thorough manner throughout, of iron and steel; it is self-contained, rigid and compact.

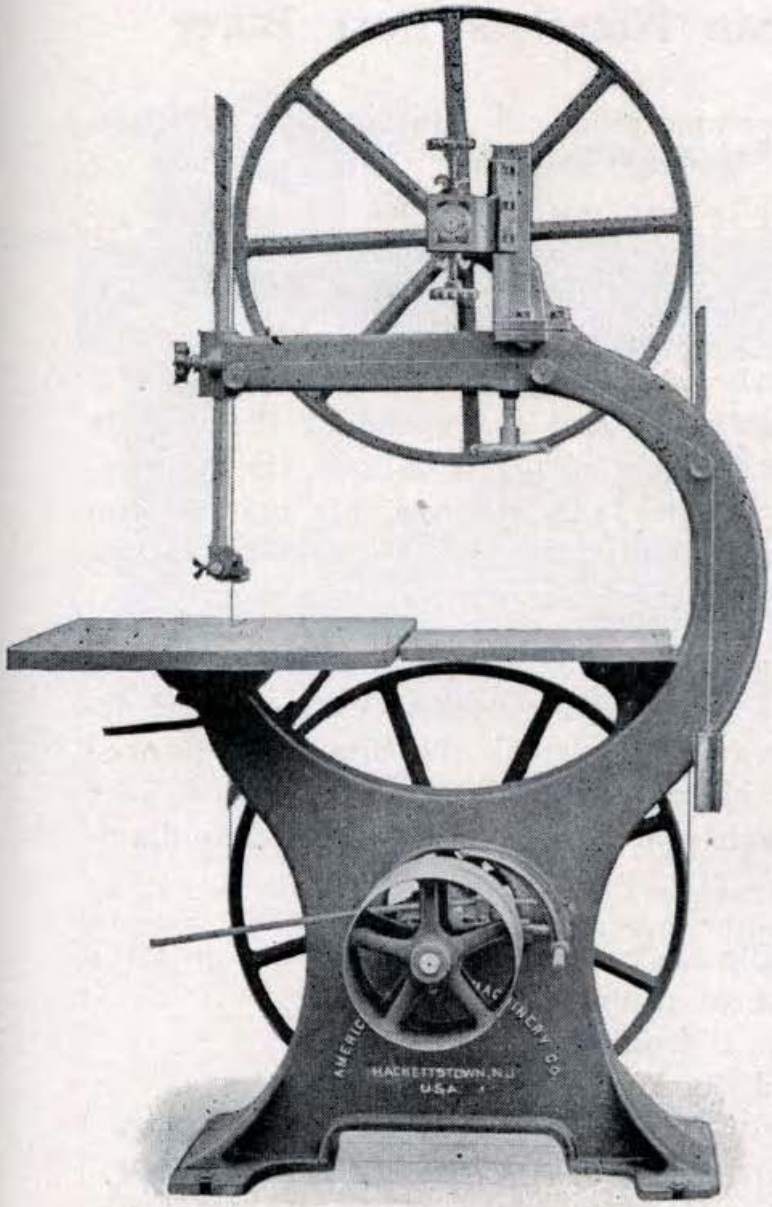
The Mandrel, with tight collar and pulley, is made of one piece of steel, turned from the solid, thus assuring accuracy, strength and perfect balance; permitting a very high speed without vibration. It is carried in substantial iron frame, which is trunnioned to the side frames in the rear, allowing the saw to be raised and lowered without stopping. The journals are $1\frac{3}{16}$ inches in diameter, with self-oiling boxes. A quadrant and binder lever are provided for securely fastening saw at any position desired.

The Table is 30 inches by 30 inches, planed true, has a groove on one side of the saw, and is provided with a **Ripping Gauge,** admitting of quick and accurate adjustments, also a **Cross Cut and Mitre Gauge** giving any angle up to 90 degrees.

The Countershaft is carried on the rear of the main frame, has tight and loose pulleys 6 inches by 4 inches, which should run about 500 revolutions for a 12 inch saw. A convenient belt shifter is also provided. Saws from 8 inches to 16 inches diameter with 1 inch hole may be used. Can be fitted to carry grooving or dado heads at slight additional cost.

Net weight, 465 lbs. Packed for export in one case, 3 feet by 3 feet by 2 feet, weighing 625 lbs. Floor space required, 36 inches by 42 inches.

Price, $100.00. Code name, **"Sawax."**



American Tilting-Table Band Saws

These machines are built from new patterns of the most approved design and are made in two sizes, 36 inch and 27 inch. **The Frame** is cored out and cast in one piece with very broad base, which insures stiffness, good floor support and absence of vibration.

The Wheels are of cast iron, accurately turned and carefully balanced, with rims covered with rubber, and are so made throughout as to guarantee them remaining round and running true. The upper wheel has spring tension and convenient training device.

The Table is iron and may be tilted to any angle up to 45 degrees, and held securely in any position by an ingenious clamping device.

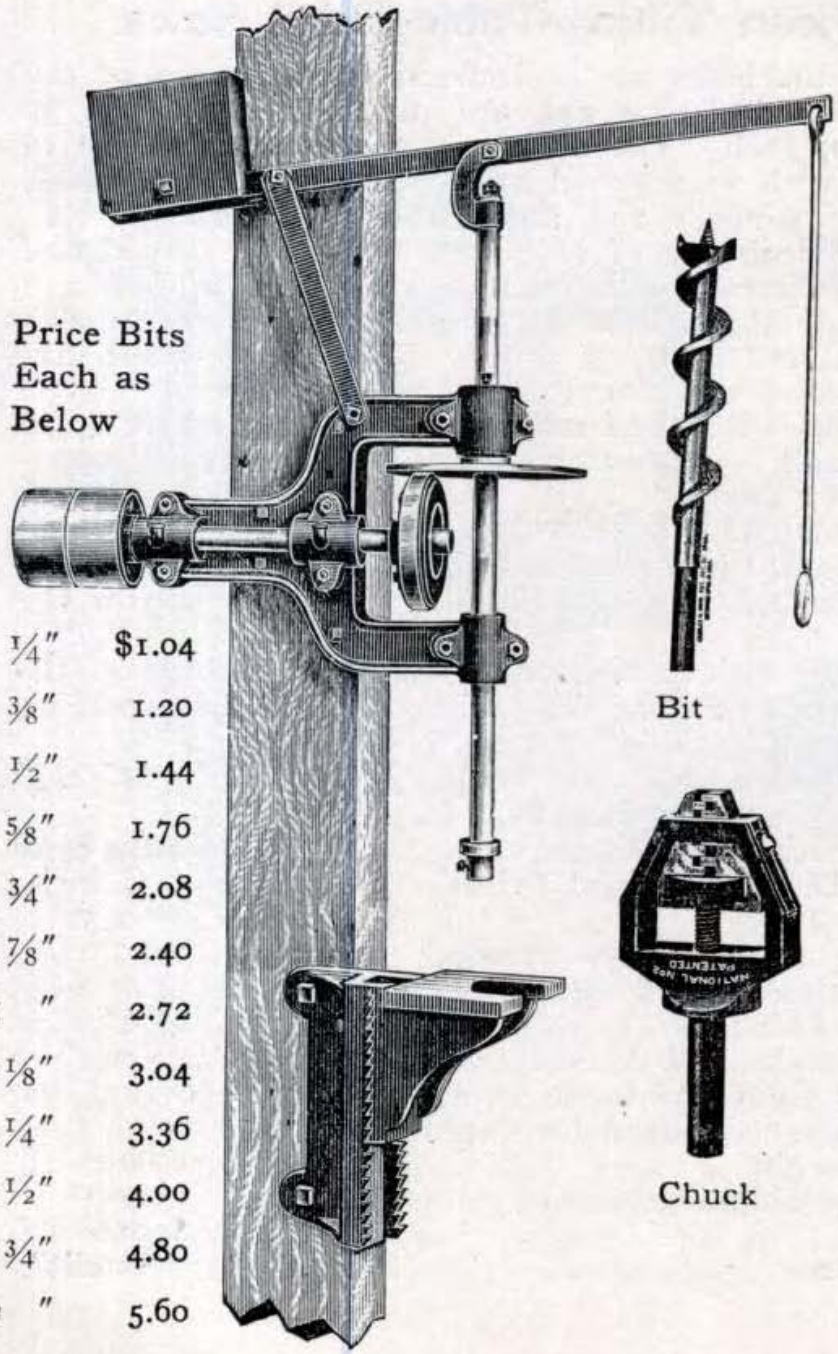
The Guide Bar is planed true, counterbalanced and fitted with patent non-friction saw guide. **The Belt Shifter** will receive a belt from any direction above or below the floor.

Furnished with anti-friction roller guide above the table, plain guide below the table; ripping guide, brazing clamp and tongs, and ½ inch saw blade.

Extra Saw Blades, each	3/8″	½″	5/8″	¾″	7/8″	1″	1¼″
For 27″ machine	**$1.94**	**$2.14**	**$2.52**	**$2.90**			
For 36″ machine	**2.30**	**.2.54**	**.3.00**	**.3.52**	**$4.08**	**$4.44**	**$5.16**

Dimensions and Prices	**27 inch**	**36 inch**
Size of Table	22″ x 26″	28″ x 32″
Distance from saw to frame	27″	36″
Guide raises above table	12″	14″
Length of blade	14′	18′ 6″
Size ot tight and loose pulleys	10″ x 3½″	12″ x 4″
Speed of tight and loose pulleys	400 to 450 r. p. m.	
Cubic measure, boxed for export	26′	60′
Gross weight	900	1500
Domestic shipping weight	700	1300
Price	**$110.00**	**$150.00**
Code name	**"Bandy"**	**"Bandit"**

American Noiseless Post Borer



Price Bits Each as Below

¼"	$1.04
⅜"	1.20
½"	1.44
⅝"	1.76
¾"	2.08
⅞"	2.40
1 "	2.72
1⅛"	3.04
1¼"	3.36
1½"	4.00
1¾"	4.80
2 "	5.60

Bit

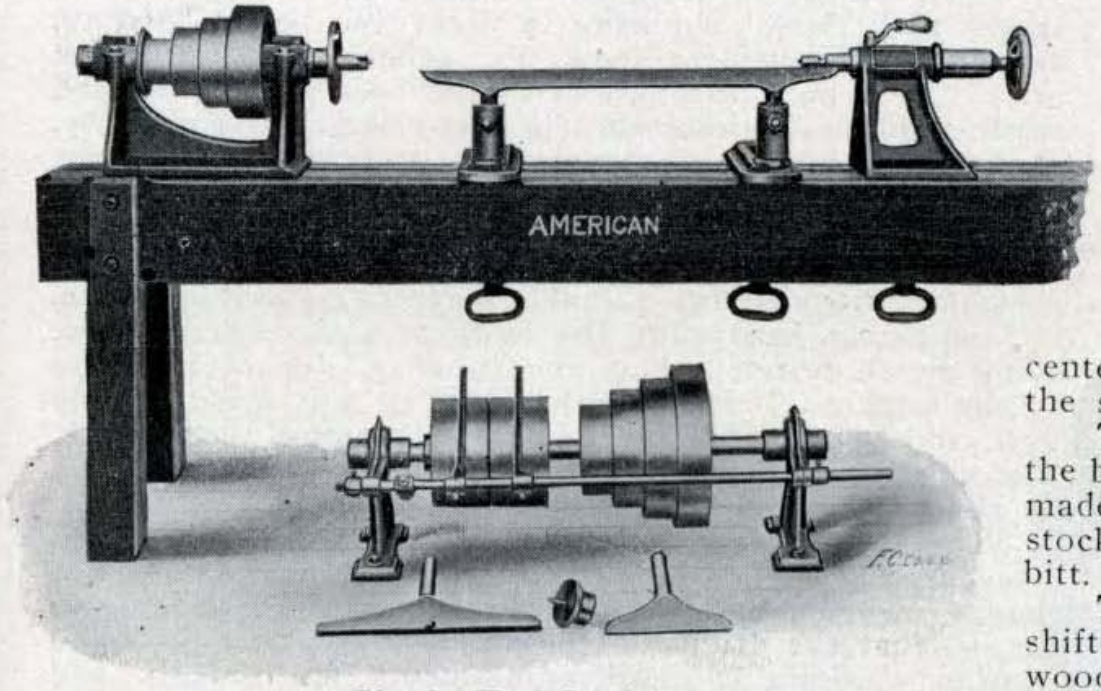
Chuck

The accompanying cut illustrates a **Friction Drive Post Boring Machine.** This machine we built especially for our own use in our shops. Operators of wood working plants who have seen the machine in operation have unanimously declared that it is the most desirable machine of its kind they have ever seen. Its operation is absolutely noiseless and the speed of the spindle can be very quickly changed to suit the requirements of the work. In putting this machine on the market we know its actual value as a time saver and positively guarantee satisfaction.

A universal chuck that will hold any size shanks from 0 to ¾ inch can be fitted at extra cost if desired. We can also furnish the bits when desired with ½ inch shanks and 12 inch twist. It will bore a hole 14 inches deep and up to 2½ inches diameter.

Steel spindle $1\frac{7}{16}$". Stroke 14".
From post to center of bit 8".
Fits any post from 6" to 14".
Tight and loose pulleys 6"x 4".
Weight with table 270 lbs. **Price** **$42.00**
Weight without table 235 lbs. **Price** **35.00**
Price of Chuck fitted **9.00**
Code name, **"Boring."**

American Wood Turning Lathes



Single End Lathe

Our **Wood Lathes** possess every desirable improvement and convenience; they are well built, neatly finished and will stand the hardest kind of turning.

The Head and Tail Stocks are made heavy and rigid, so as not to spring or chatter when running. The bottoms of the head and tail stocks are planed on a mandrel, so that the centers come exactly in line when fitted to the shears.

The Spindles and Centers are made of the best steel. The cone driving pulleys are made of iron. The bearings of the head stock spindle are lined with genuine babbitt.

The Countershaft is complete with shifter, and will be furnished with iron or wood cone pulleys.

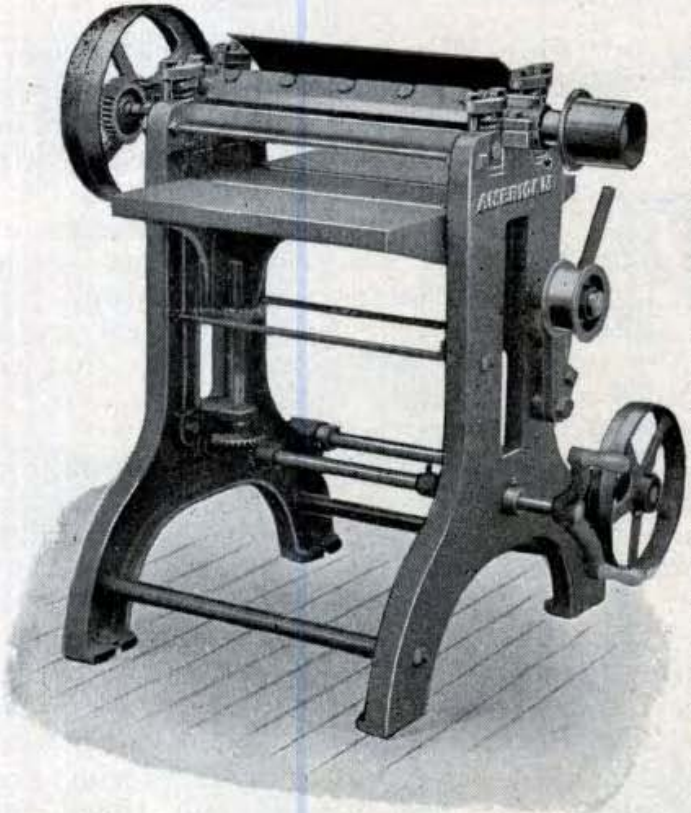
The Parts Furnished with a single end lathe, are the head and tail stocks, one each spur, and conical center, one face plate, one screw face plate, two rest stands and three tool rests of different lengths, three clamp bolts for the stands and tail stock, countershaft with shifter. The **Double End Lathe,** besides the above parts, is furnished with a floor stand with adjustable rest and one large rear face plate for turning large circles. Prices cover irons only.

Dimensions and Prices

Swing	Face of Cones	Changes of Speed	T. & L. Pulleys	Speed of Countershaft	Weight	Price	Code Name
12″	2″	4	6″x 3½″	800	340	$ 70.00	"Latch"
16″	2″	4	8″x 4½″	700	430	85.00	"Latchet"
20″	2½″	5	10″x 4½″	600	480	100.00	"Latching"

Double End Lathe $16.00 extra.

American "Jewel" Planer



This **Planer** is designed to meet the needs of small shops and those requiring a light but good, strong, durable single-surfacer planer for general work at a low price. It is built throughout of the best grade iron and steel, and the workmanship is first-class. Its simplicity, compactness, and large capacity in proportion to its size have made it very popular, and secured for it a very large sale.

While somewhat lighter than our "Pony" planer, it possesses many of the valuable features of that machine, and is amply heavy for the work it is intended to do, being much heavier than any other planer of its class on the market. It works either hard or soft wood equally well, and is particularly adapted to planing short stock. The work turned out is first-class and equal to that done by the larger, high priced machines.

The Cutter Head is made from high grade steel and is accurately turned and balanced. Its position is not changed when adjusting for different thicknesses of lumber, so that the driving belt remains tight, though belted from any direction. All adjustments are quickly and easily made without loosening any bolts or screws, or disturbing the belts.

It has two **Power Feed Rolls,** one in front and one in rear of the cutter head, the feeding-in roll being fluted to insure a strong, positive feed. Two speeds of feed are provided for by means of cone pulleys. The feed can be stopped or started instantly by means of a convenient belt tightener. **The Bed** is cast in one piece with heavy ribs underneath, and is accurately planed and fitted with two steel idle rolls.

It is built in two sizes to plane up to 16 inches and 20 inches wide, and from ¼ inch to 6 inches thick. It is furnished with one pair of planer knives, and with or without countershaft as ordered. No belting is furnished. Feed belts require 13½ feet of 1½ inch belting.

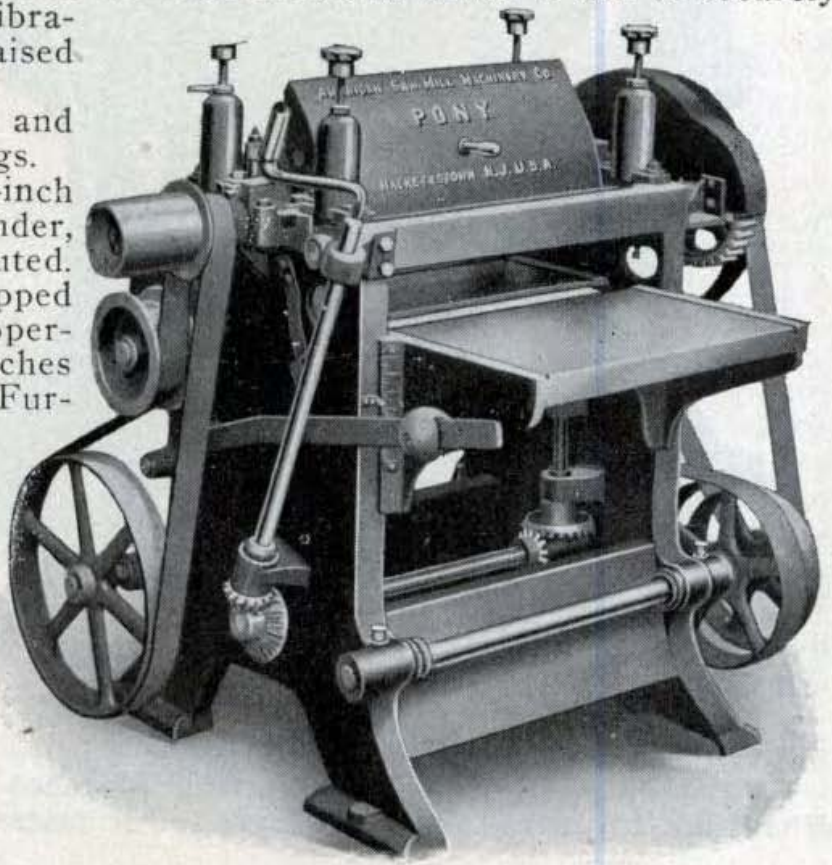
Price, 16″ Machine, with countershaft, **$152.00:** shipping weight 720 lbs. Code name **"Plant."**
Price, 20″ Machine, with countershaft, **$169.00:** shipping weight 745 lbs. Code name, **"Planted."**
If countershaft is not wanted deduct **$20.00;** shipping weight 150 lbs.

American "Pony" Planer or Surfacer

This **Single Surfacer Pony Planer** is very similar in design to our "Triumph" planer and matcher. It is compact and rigid, and embodies the very best materials and highest class workmanship. It is intended for all kinds of surfacing and will do first-class work on hard or soft wood with great rapidity.

It is adapted to planing stock for sash, doors, window casings, panels, etc.; and as the rolls are close to the cylinder, and a pressure bar is provided, it will plane box boards and other short stock in a most satisfactory manner.

The Main Frame is designed for strength and stiffness. **The Table** is a single casting, deep, strong, heavily ribbed and gibbed to the outer edges of the main frame to which it can be securely locked at any point thus avoiding all rocking or vibration. It carries two 3-inch steel idle rolls and is raised or lowered by hand screw.



The Cylinder is solid steel accurately milled and balanced with ample journals and babbitted bearings.

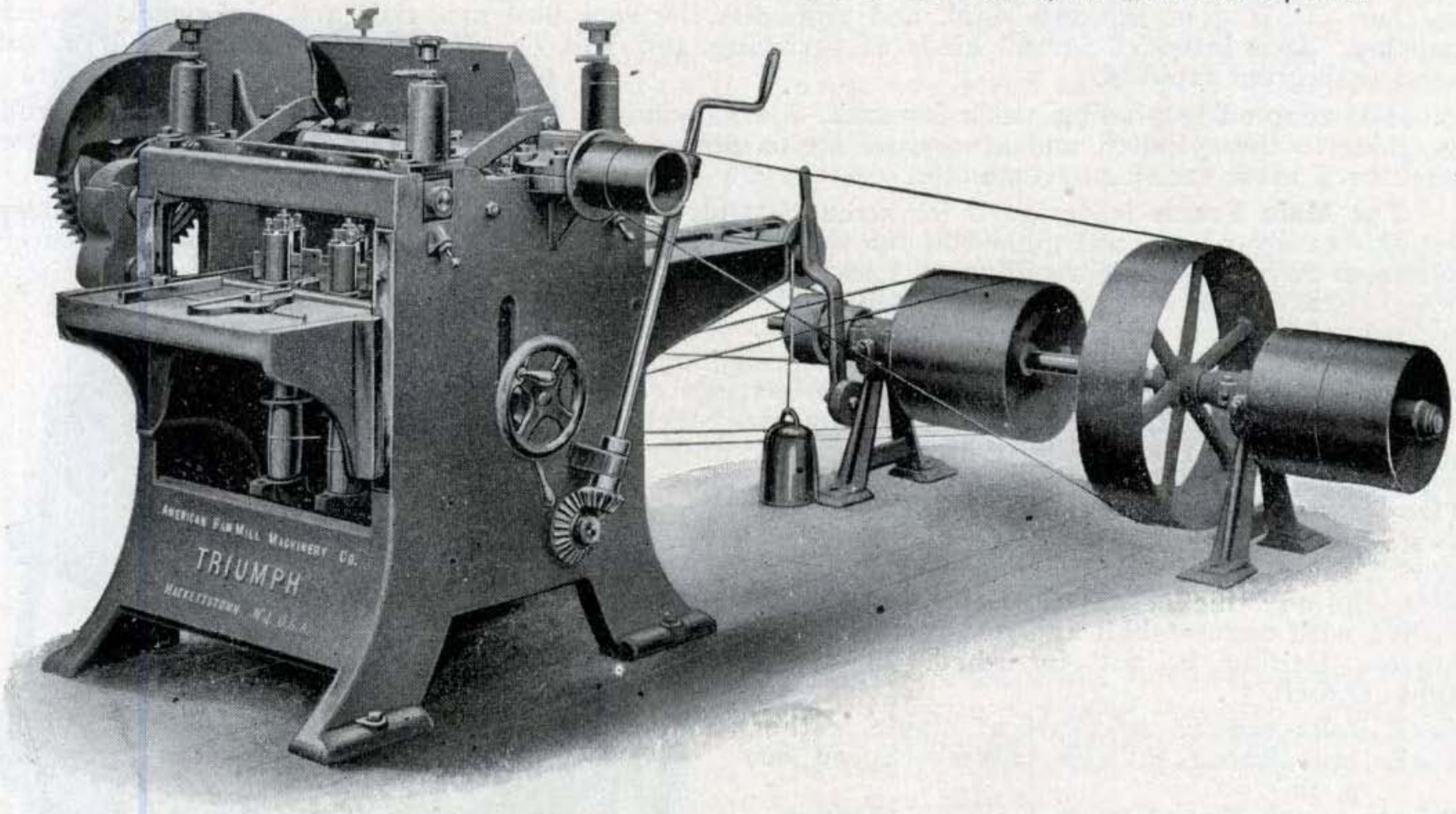
The Feed is positive and powerful having two 3-inch steel rolls, one in front and one in rear of the cylinder, both strongly geared; the feeding-in roll being fluted. **Two Rates of Feed** are provided and the feed is stopped or started by a belt tightener in easy reach of the operator. Built in two sizes to plane 20 inches and 24 inches wide, and any thickness from ¼ inch to 6 inches. Furnished with countershaft and one pair of planer knives. Belting is not furnished. Width of cylinder belt 5".

Feed Belts require 20' 3" of 2" single leather. Tight and Loose Pulleys 12"x6" (Speed 800 r. p. m.).

Price 20 inch Complete as described, **$275.00.**
Weight, 1500 lbs. Code name, **"Planish."**
Price 24 inch Complete as described, **$325.00.**
Weight, 1700 lbs. Code name, **"Planished."**
If Countershaft is not wanted, deduct, **$22.00.**
Weight, 215 lbs.

American "Triumph" Planer, Matcher and Moulder

Made in two sizes, 20 inch and 24 inch



View of operating side, showing Matcher Heads, Lever for raising the Table and Hand Wheel for adjusting Matcher Heads. For prices see page 112.

American "Triumph" Planer, Matcher and Moulder

This is a very compact, rigid machine and is designed to economize space and withstand the hardest usage as well as to do the best class of work. There is an entire absence of vibration so common in small planers of this class; hence, the work turned out is uniform and equal in quality to that of large, expensive machines. The workmanship and material throughout are of the highest grade. It is adapted to the use of saw mills and small planing mills having limited room and power where a machine is required for a large variety of work, such as planing and matching, beading, working flooring, ceiling, siding, casing, wainscoting, and a large variety of moulding and trim.

The Main Frame is amply proportioned and strongly ribbed, insuring the greatest strength and stiffness.

The Table is cast in one piece and is deep and strong, being heavily ribbed and having arched braces under side. It is planed on top and has raised edges to prevent the material from leading against the side frames. The slides are long and placed far apart, being fitted to the outer edges of the main frame to which they are gibbed, thus securing the greatest rigidity and least possible wear.

The Cylinder is made of special grade steel and is accurately milled on four sides, two of the sides being slotted to carry beading and moulding knives in addition to the regular planing knives, which do not have to be removed when beading and moulding is being cut.

Matcher Spindles are unusually large and run in long babbitted boxes, ample provision being made for thorough lubrication. The matcher frames are also very strong and are carried by $1\frac{1}{16}$ inch round steel guides at top and bottom, provision being made to easily take up any wear or lost motion. One of the matcher spindles is adjustable by means of a hand wheel at the side of the machine and has an eccentric clamp for instantly securing it in any desired position.

Matcher Heads are made of bronze of standard design and will carry matcher, edger or moulding bits $\frac{5}{16}$ inch thick and up to $2\frac{1}{2}$ inches wide. Shimer heads can be used when desired. Moulding knives can also be used on the main cylinder where the cut is not over $\frac{7}{8}$ inch deep.

Chip Breakers. A heavy adjustable chip breaker is placed in front of the cylinder, which also acts as a hood. It may be swung back to expose the knives. Each matcher head has a chip breaker, one of which is self-adjusting.

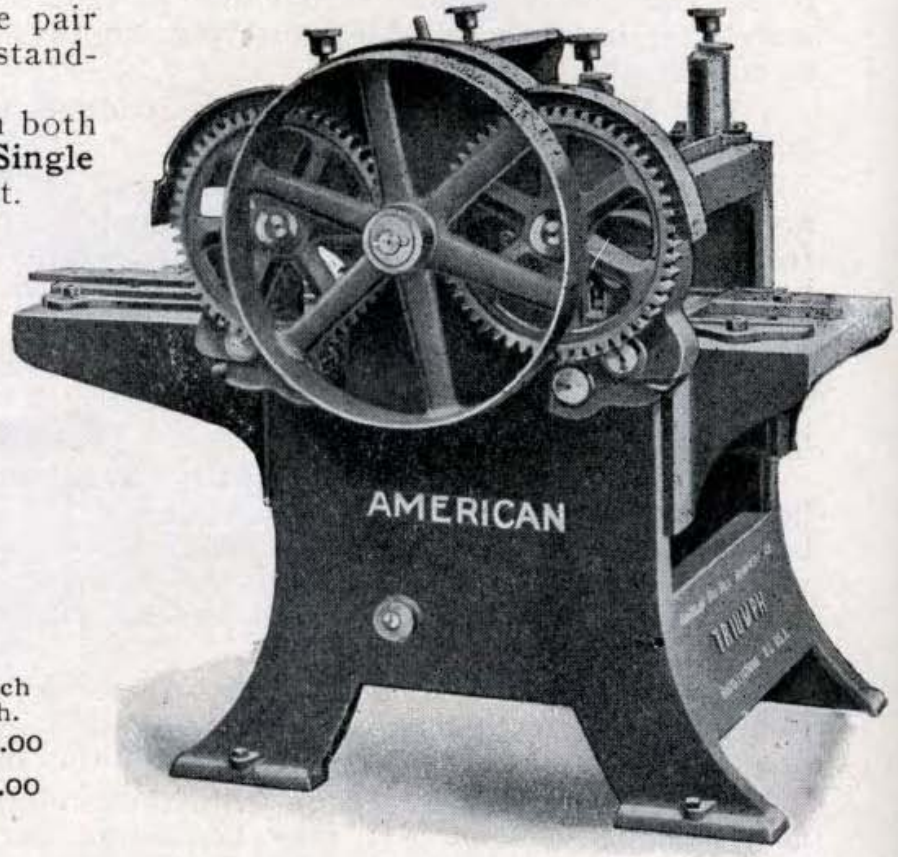
Pressure Bar is adjustable and prevents any vibration of material between the cylinder and matcher heads. This bar and the front chip breaker may be set close to the cylinder for special smooth surfacing and can be set out so as to clear moulding bits when used.

"Triumph" Planer, Matcher and Moulder

The Feed is simple, powerful and positive, with steel rolls 3 inch diameter, turned from the solid; the top feeding-in roll being fluted. It is driven by a belt from the countershaft, to which a belt tightener is attached so that the operator can stop or start the feed at will. Two rates of feed are provided, namely 35 feet and 42 feet per minute, and the change from one to the other can be quickly and easily made.

Each planer and matcher is furnished with one pair of planer knives, one pair beading bits and one set standard matcher bits for 1 inch flooring.

The cuts show the machine **Double Geared** with both top and bottom rolls driven, but it is also furnished **Single Geared** with the top rolls only driven; see price list.



View of Feed Side showing Double-geared Machine with all Four Feed Rolls Driven

Specifications:

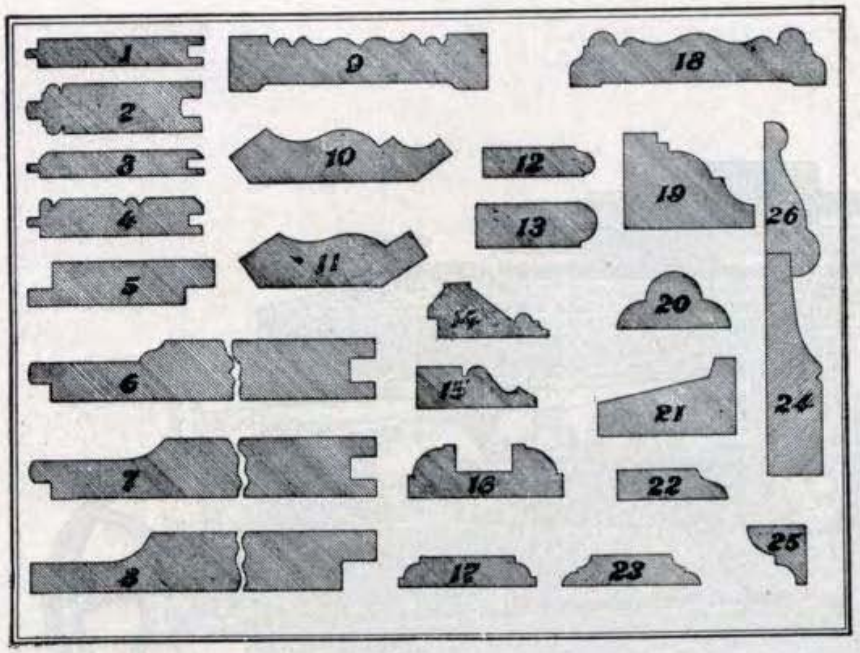
	20 in. Mach.	24 in. Mach.
Planes any width up to	20″	24″
Planes any thickness from	⅜″ to 6″	⅜″ to 6″
Matches up to 2″ thick and up to	10″ wide	14″ wide
Tight and Loose Pulleys (speed 800)	12″ x 6″	12″ x 6″
Floor space, including countershaft	8′ 6″ x 6′	8′ 6″ x 6′ 4″
Distance from cylinder to countershaft	5′ 6″	5′ 6″
Shipping weight	2100	2500
Weight packed for export	2450	2900
Dimensions packed for export	81 cu. ft.	85 cu. ft.
Cylinder Belt 6″ wide	14′ 9″ long	14′ 9″ long
Feed Belt 3″ wide	16′ long	16′ long
Two Matcher Belts 3″ wide, each	13′ 8″ long	13′ 8″ long

Belts are Not Furnished.

	20 inch Mach.	24 inch Mach.
Price, with Top Rolls only driven	$360.00	$420.00
Price, with Top and Bottom Rolls driven	390.00	450.00

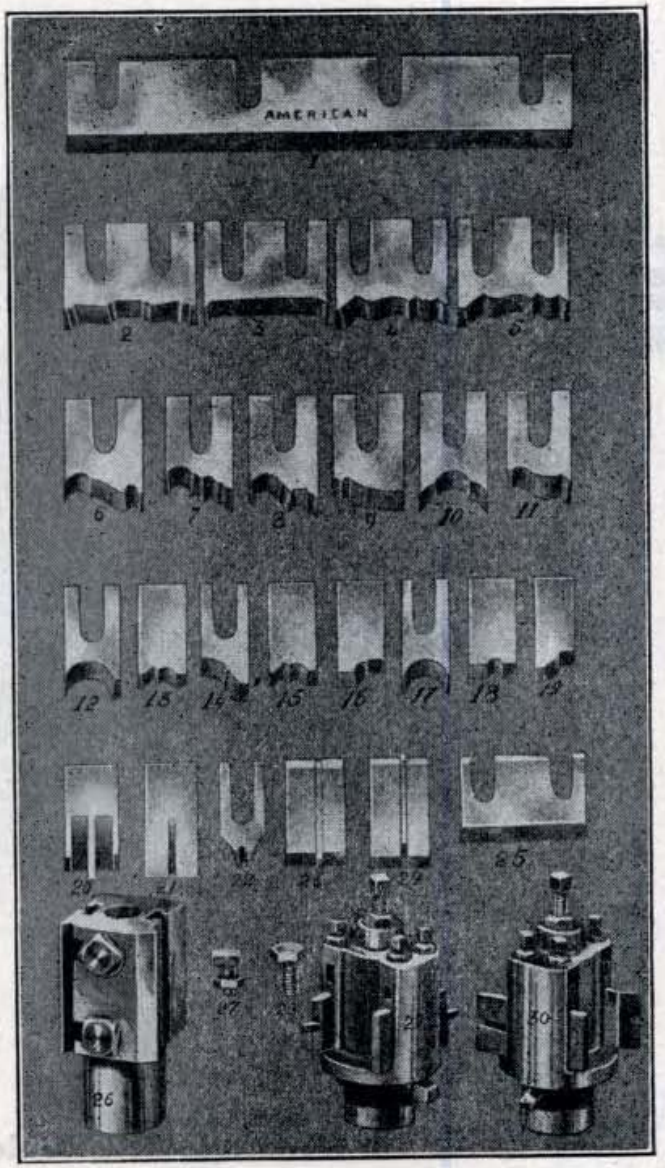
Code names on pages 139-141.

Styles of Work

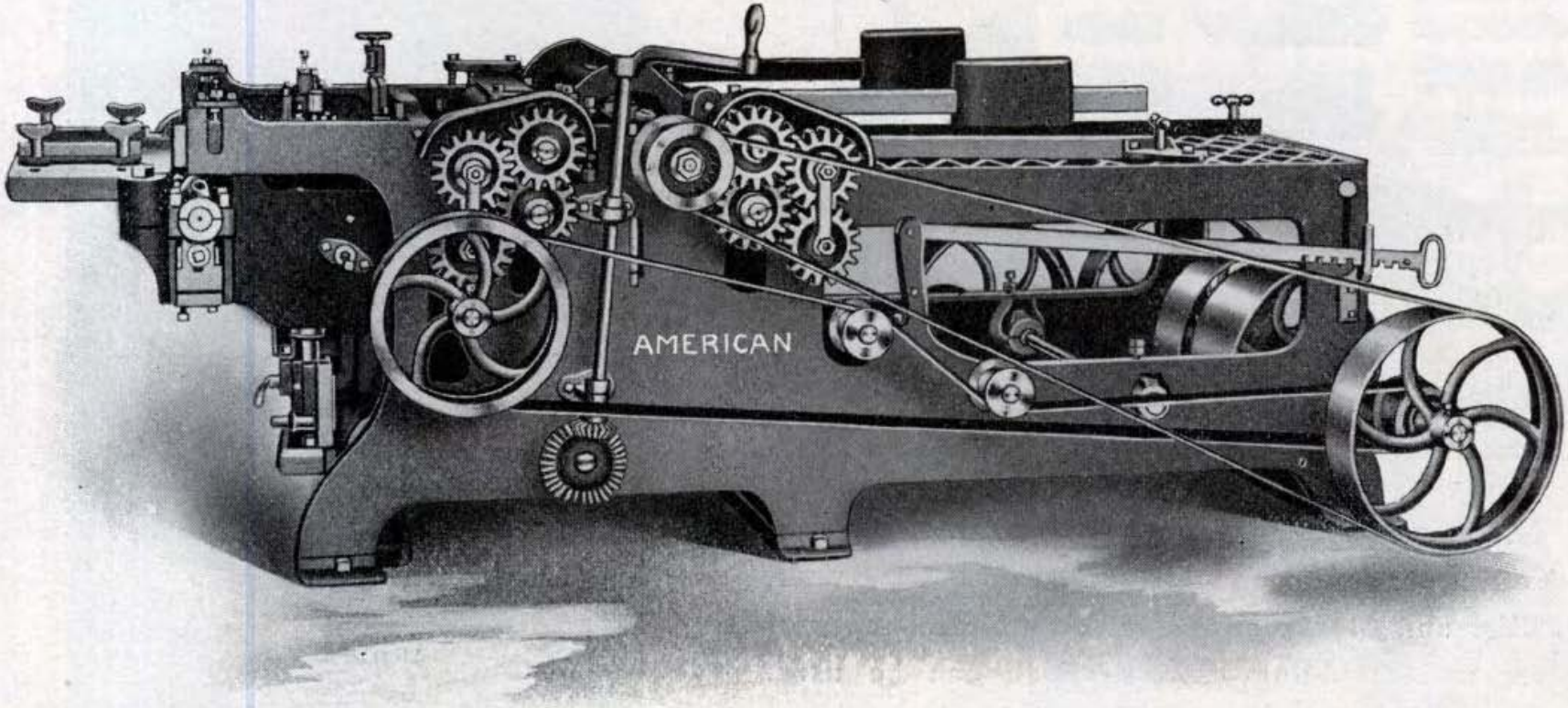


These cuts show a few of the many styles of work that can be done on our "Triumph" Planer, Matcher and Moulder; also a few of the shapes of knives and moulding cutters which can be used. Nos. 29 and 30 show the bronze side heads furnished with the machine. No. 26 shows a special side head, which can be furnished plain or slotted on order at extra cost. Knives and cutters for any kind of work furnished at lowest prices.

Knives and Cutters



American "Monarch" Heavy Planer and Matcher



Made Either Single or Double Surfacer. (Cut Shows Double Surfacer)

American "Monarch" Heavy Planer and Matcher

To meet the demand for a **Double Surfacer** and a heavier machine than our "Triumph" we now offer our "Monarch" Planer, Matcher and Moulder which is compact and rigid, and capable of turning out a large quantity of first-class work.

It is entirely self-contained and has the countershaft mounted on the main frame at the rear of the machine. The bed is very stiff and extends back over the countershaft.

Every part of the machine is in easy reach of the operator from the outside and is readily changed from surfacing and matching to surfacing only.

The Cylinders are made of the best grade solid steel forgings, and are slotted on four sides so that beading or moulding bits having a depth of cut not over 1¼ inch may be used without removing the planer knives.

Both cylinders are fitted with perforated pulleys, the top cylinder being double belted, and the lower one single belted. The journals on the top cylinder are 1⅞ inch by 9 inches and those of the lower one 1⅞ inch by 8 inches, and the bearings are lined with best grade of babbitt.

The Pressure Bar and **Chip Breaker** are adjustable so as to provide ample clearance for moulding knives and bits.

Matcher spindles are 1⅜ inch diameter and run in long babbitted bearings which are self-oiling. They can be dropped below the bed when surfacing only is being done. Steel matcher heads are furnished, but **Shimer Heads** can be used when desired, and will be furnished at extra cost.

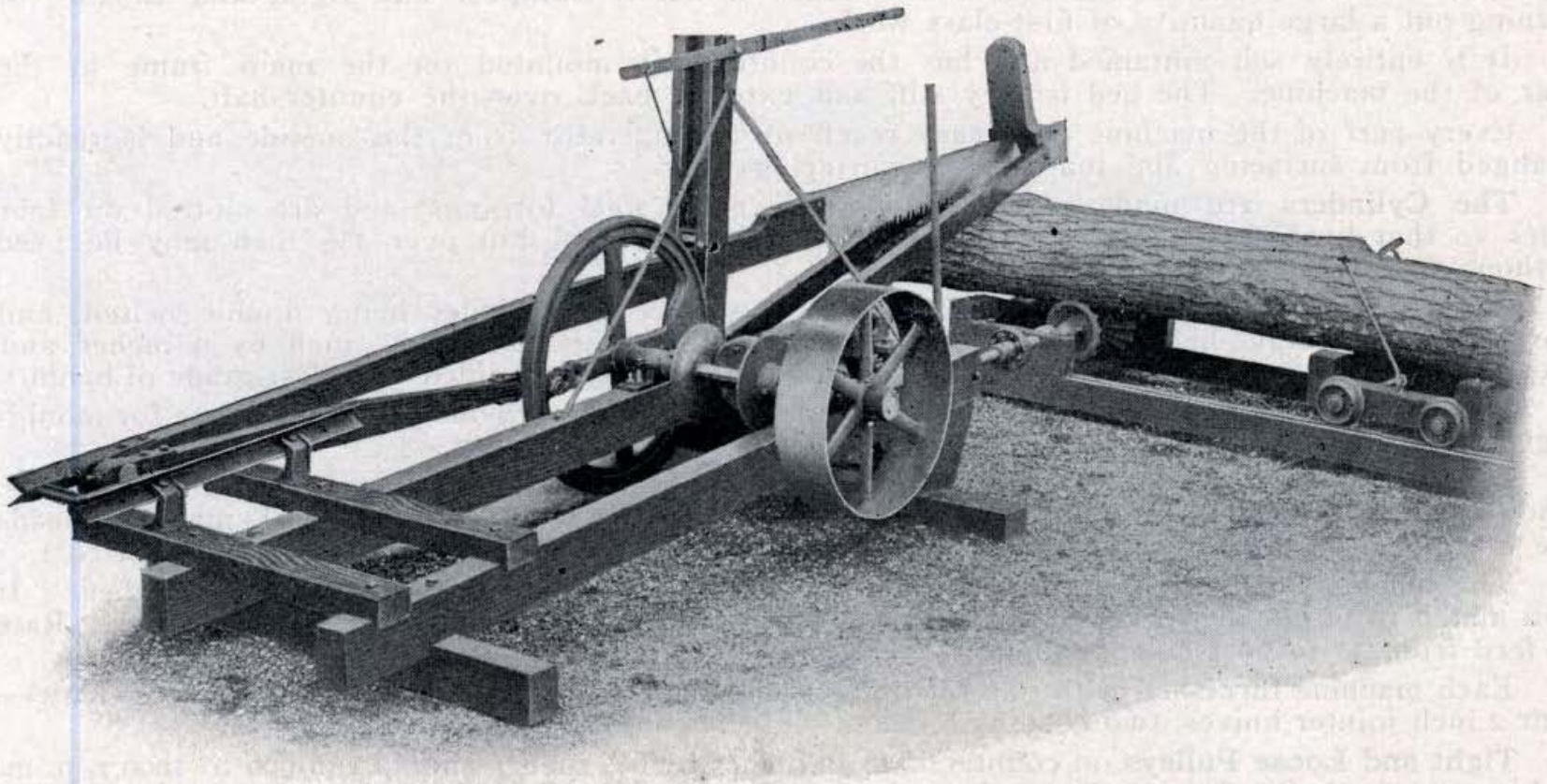
The machine will plane 24 inches wide, and any thickness from ⅜ inch up to 6 inches. It will match from 2½ inches up to 12 inches in width and from ⅜ inch up to 2 inches thick. Rate of feed from 30 to 60 feet per minute.

Each machine furnished with one set of 24 inch Planer Knives, two Novelty Siding Knives, four 2 inch jointer knives, two beading bits and sixteen sectional matcher bits.

Tight and Loose Pulleys on countershaft 12 inches by 6½ inches should run 900 to 1000 r. p. m. Belting required: Single surfacer, 31 feet of 4 inch, 53 feet of 3 inch; Double surfacer, 48 feet of 4 inch, 53 feet of 3 inch. **Belts are Not Furnished.** From 10 to 15 H. P. required.

	Weight Net	Weight Crated	Weight Boxed for Export	Size of Case	Code Word	Floor Space	**Price Complete**
Single Surfacer	3900	4200	4400	9′x 4′x 4′	**"Monar"**	11′x 5′	**$730.00**
Double Surfacer	4350	4600	4800	9′x 4′x 4′	**"Monarch"**	11′x 5′	**850.00**

American "Champion" Friction-Feed Drag Saw



Code Name "Dragon."

This machine, as its name indicates, is the **Champion** among **Drag Saws,** having decided advantages over all others on the market. It is strong and durable, simple in construction, easy to operate and a most rapid worker.

American "Champion" Friction Feed Drag Saw

The Main Frame is 26 inches wide, 8½ feet long and is made of 3½ by 5½ inch seasoned hard wood strongly framed together, securely bolted and braced.

The Track is 27 inches wide, 16 feet long, made of 2¼ by 4 inch timbers well framed together.

The Friction Feed is very simple, yet positive and effective. It will start, stop or reverse instantly by very slight motion of the feed lever without any effort on the part of the operator. This enables the operator to feed the logs ahead or back and stop at any point without running back or losing time. This feature alone puts the "Champion" ahead of any other drag saw in the market, yet it has every practical advantage that can be desired in a machine of its kind.

The Balance Wheel is large and heavy, and counter balanced, imparting a strong steady motion, and is arranged for changing the stroke from 16 inches to 20 inches or 24 inches.

The Log Truck is very substantial, having steel axles and two dogs for securely holding logs.

The Saw is raised with one hand and the friction feed operated with the other, thus changing and setting for a new cut without slowing down or stopping. A strong, reliable saw guide is also provided.

Unless Otherwise Ordered, each machine is furnished complete with 24 by 6 inch driving pulley, log truck, power rolls, tumbling rod with two Universal Couplings, 16 feet of track and one 5 foot 6 inch saw.

Tight and loose pulleys can be furnished, if so desired, at small additional price.

When operated by sweep horse power the driving shaft is fitted with a **Universal Coupling** for tumbling rod instead of driving pulley.

We can supply this drag saw without power feed and with a **Ratchet Lever** to operate the feed rolls, thus making a most desirable hand feed machine at very low price.

Capacity: 30 to 40 cords of wood per day, depending on kind of wood, power and speed.

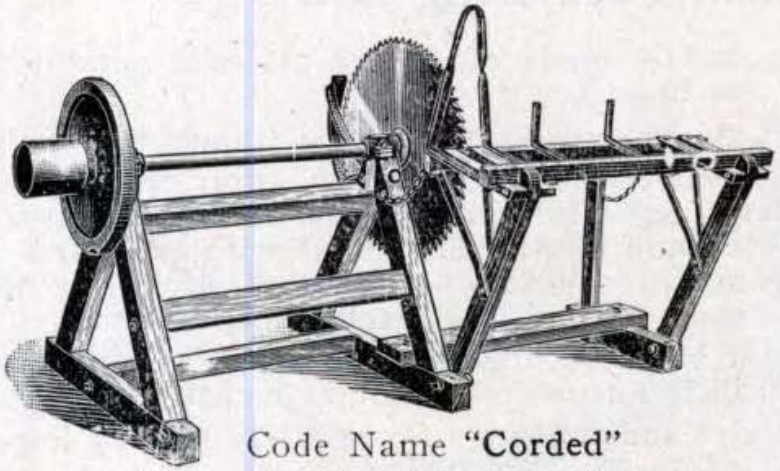
Power Required: two to four H. P. will operate machine to good advantage; more power will give greater capacity.

Speed Recommended: 125 to 175 strokes per minute.

Weight Complete, 1,150 pounds. Weight packed for shipment, 1,300 pounds. Weight packed for export, 1,450 pounds; 51 cubic feet.

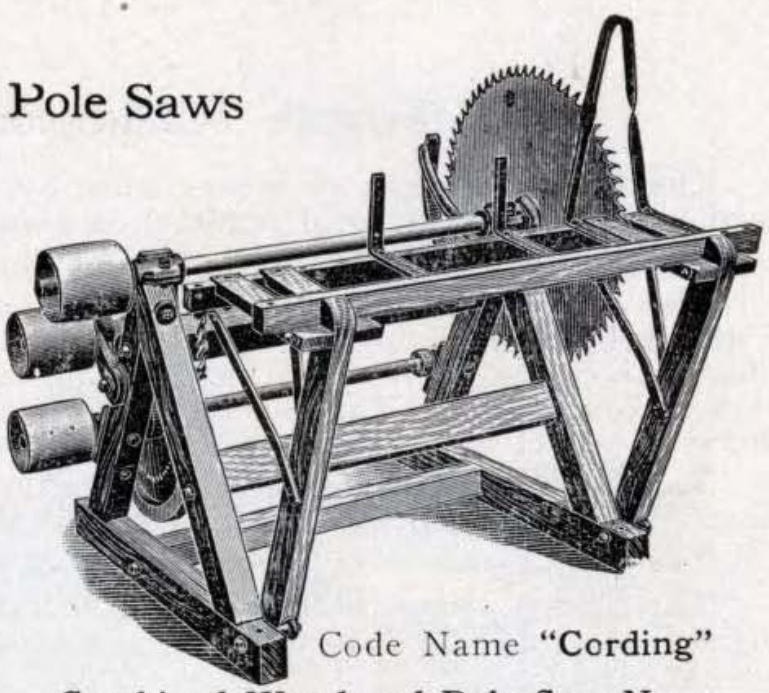
Price Complete with one Saw and Pulley or Universal Coupling **$100.00**
Price Complete with one Saw and tight and loose Pulleys **110.00**
Price Complete with one Saw and Pulley without Power Feed **90.00**

American "Clipper" Wood and Pole Saws



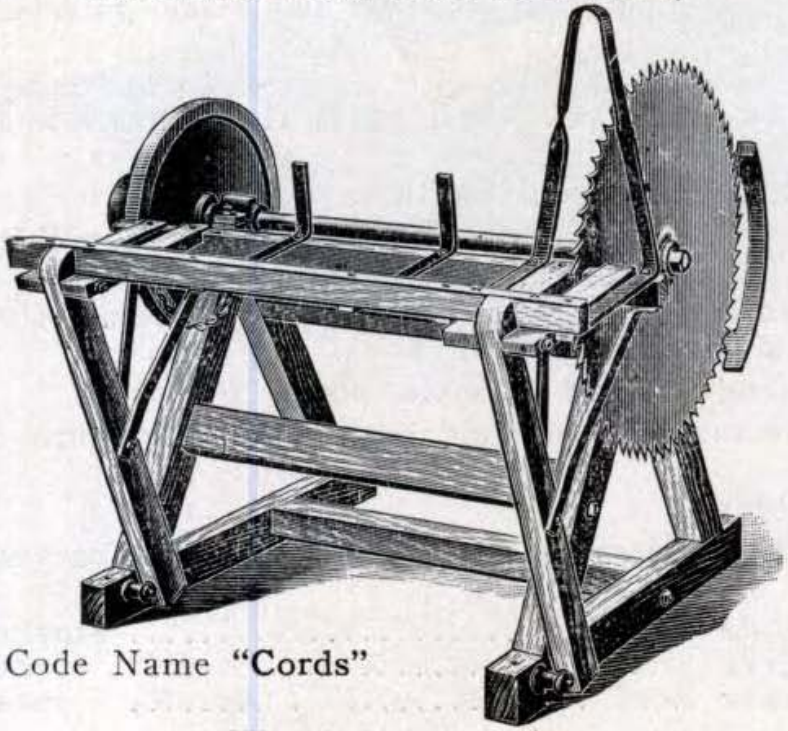
Code Name "**Corded**"

Extension Table Pole Saw No. 4



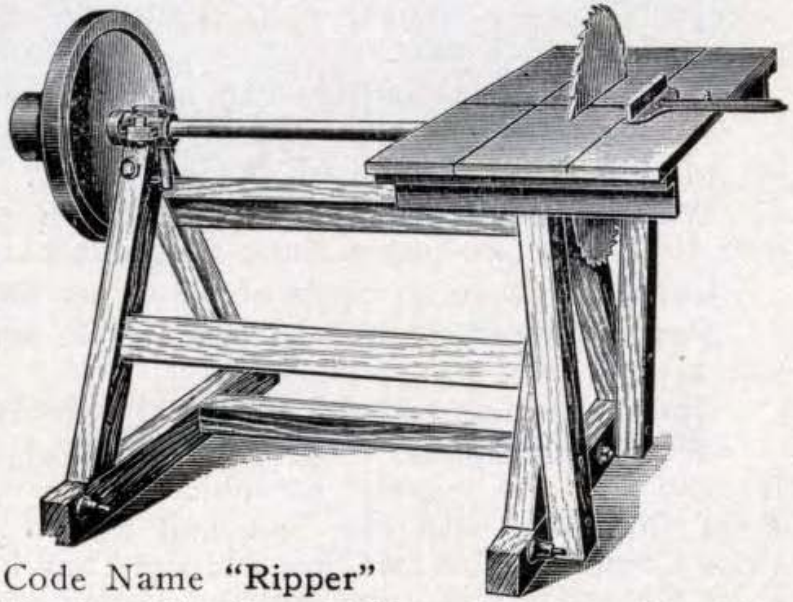
Code Name "**Cording**"

Combined Wood and Pole Saw No. 5.



Code Name "**Cords**"

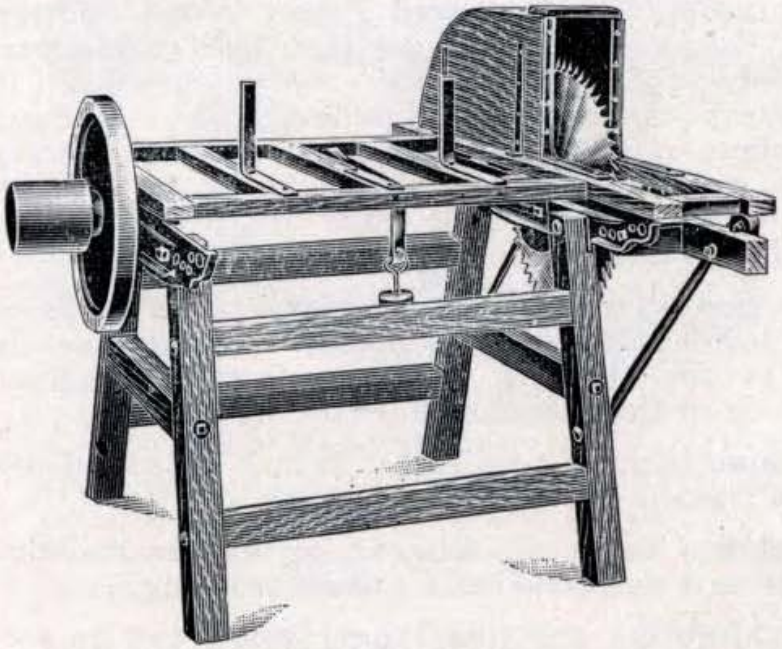
Wood Saw No. 3.



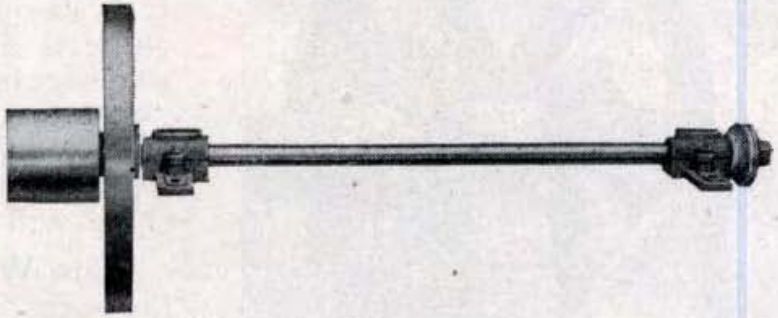
Code Name "**Ripper**"

Handy Rip Saw Table which can be attached to any of our Wood or Pole Saws

American "Clipper" Wood and Pole Saws



Sliding Table Wood Saw No. 6



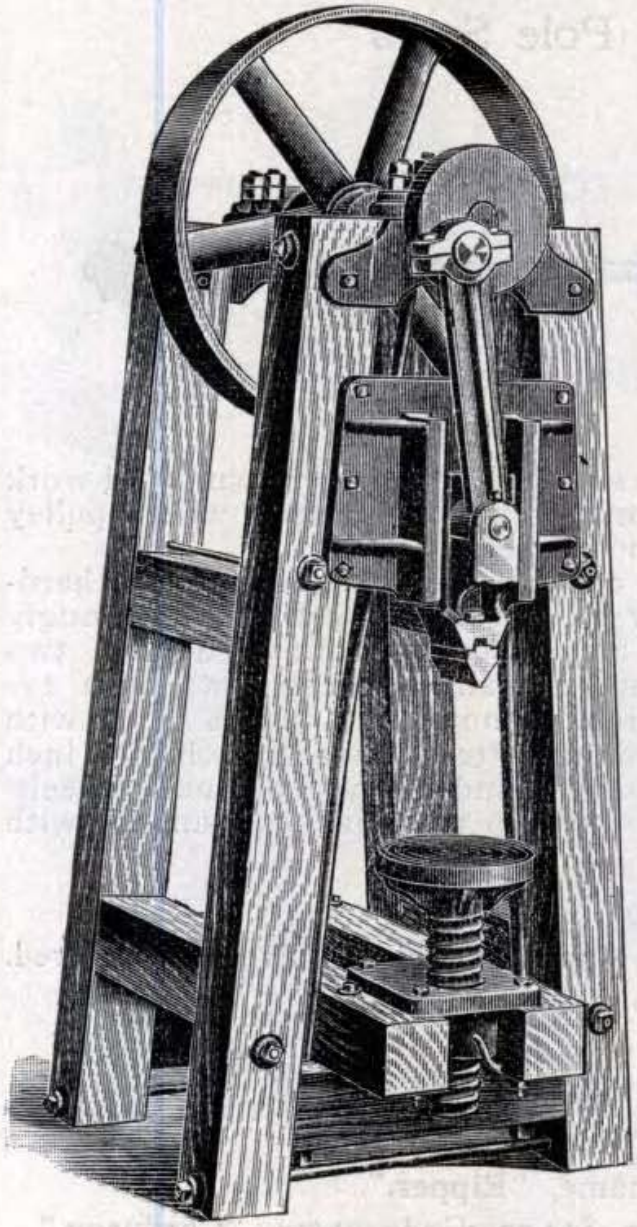
For those desiring to make their own wood work we can furnish mandrels with balance wheel, pulley and boxes as shown here.

All our **Wood and Pole Saws** have seasoned hardwood frames carefully framed together and strongly bolted. They are handsomely finished with two coats of brilliant red paint. These saws have $1\frac{7}{16}$ inch polished steel mandrels 52 inches long with large collars and babbitted boxes, 6 inch x 6 inch turned iron pulleys and heavy balance wheels. They will carry saws up to 30 inches diameter with $1\frac{1}{4}$ inch hole. A handy ripping table is furnished at extra cost.

Nos. 3 and 6 are for cutting cord wood 4 feet to 5 feet long.

Nos. 4 and 5 are for cord wood or long poles. Shipped, set up or knocked down as preferred.

No. 3 weight 300 lbs. **Price** without saw, **$21.00**, Code name, **"Cords."**
No. 4 weight 330 lbs. **Price** without saw, **23.00**, Code name, **"Corded."**
No. 5 weight 385 lbs. **Price** without saw, **27.00**, Code name, **"Cording."**
No. 6 weight 325 lbs. **Price** without saw, **27.00**, Code name, **"Cordial."**
Ripping Table weight 40 lbs. **Price** with guide, **$5.00**, Code name, **"Ripper."**
Mandrel with balance wheel, pulley and boxes 130 lbs. **Price, $14.00**, Code name, **"Corduroy."**



American Wood Splitter or Power Axe

This cut represents our **Improved Power Wood Splitter.** It is designed to withstand the strains to which such a machine is necessarily subjected, and will soon pay for itself in any excelsior factory, wood pulp mill, wood yard or kindling wood factory where much splitting is done. Hard, knotty maple, oak, pine, or other kinds of wood can be easily split. A single machine will split 5 to 10 cords and a double machine will split from 10 to 20 cords per day.

The Wood is held in an upright position by the hands of the operator, the lower end resting on the pedestal, and merely turned around as the splitting is done. It can be erected on any strong floor or timbers embedded in the ground.

The Main Frame is made of 6 inch x 6 inch seasoned oak timbers, securely framed and bolted together.

The Pedestal has ample adjustment, giving the machine a range for splitting wood 8 inches to 18 inches long.

Heavier machines for splitting longer wood can be furnished on order.

The Crank Shaft is made of steel and runs in babbitted boxes. The driving pulley weighs about 250 pounds and has heavy rim so as to give plenty of momentum. It is 32 inches by 6 inches, and should run 150 revolutions per minute. One to two H. P. is required to operate successfully.

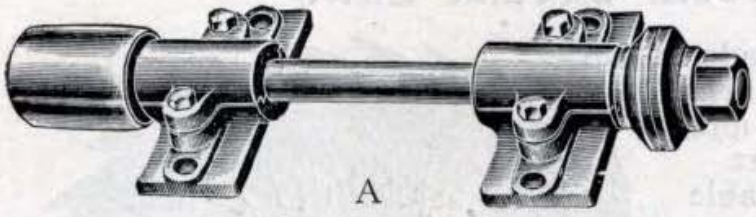
Weight: Single machine, net, 1300 lbs.; gross, 1500 lbs.; cubic contents, 30 cubic feet.

Weight: Double machine, net, 1850 lbs.; gross, 2100 lbs.; cubic contents, 35 cubic feet.

Price: Single machine, **$125;** Code name, **"Splits."**

Price: Double machine, **$175;** Code name, **"Splitting."**

American Saw Mandrels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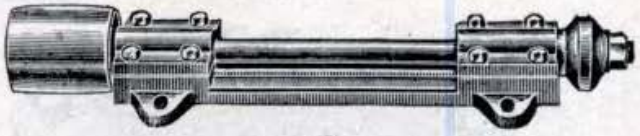
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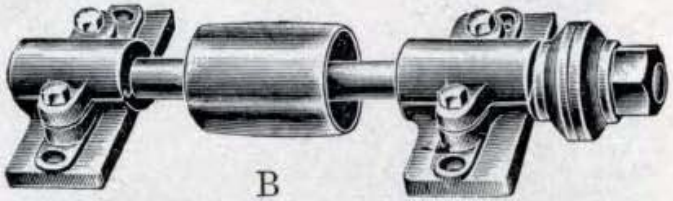
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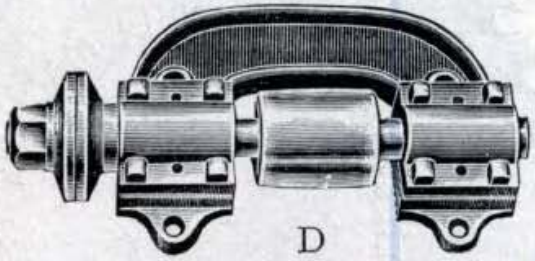

D

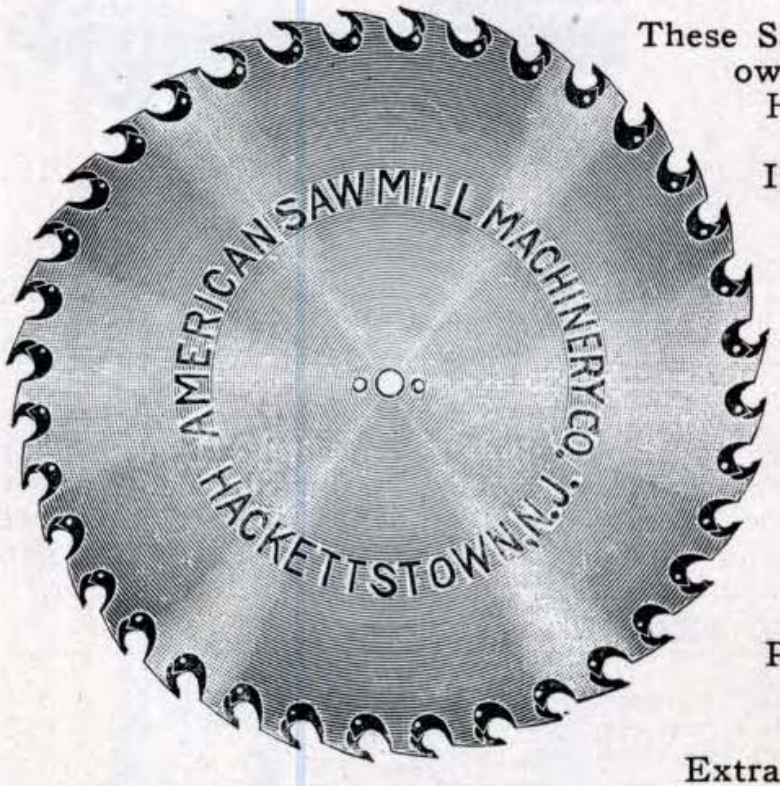
Our **Saw Mandrels** are made of best grade of steel with self-oiling babbitted bearings. They are fitted in the most careful manner and will run true and cool. We can furnish them in any style shown in the cuts and of any size given in the accompanying table. All our **Standard Mandrels** are made with pulley on right hand side and with left hand threads. Price does not include saw. **Double End Mandrels** at 1½ list of regular mandrels.

DIMENSIONS AND PRICES

No.	Length Inches				Diameter Inches	Pulley Inches		To Fit Saw Hole Inches	Largest Saw can be Used	Center to Center of Bolt Holes Inches		Price, Each			
	A	B	C	D		Dia.	Face			C	D	A	B	C	D
1	19	16	26	19½	1⅛	3	4	1	18	14½	12	$ 8.50	$ 8.00	$11.00	$12.50
2	24	20	28½	21½	1 3/16	4	4½	1⅛	24	16½	14	10.50	10 50	13.00	14 00
3	26	22	30	23½	1 5/16	5	5	1¼	26	17½	15½	12 50	12.00	15 00	16 00
4	30	26	33½	25½	1 7/16	6	6	1¼	30	18½	17	16.00	15.00	18.00	18 00
5	36	30	36	28¼	1 11/16	6	8	1½	36	19½	18½	20 00	19.00	22.00	22.00
6	36	36	36	28¼	1 15/16	8	8	1⅝	42	19½	18½	22.00	22.00	25.00	25.00
7	48	48	..	....	1 15/16	8	10	1⅝	42	....	....	24.00	24.00	.. ..	.. ..
8	36	36	..	....	2 3/16	10	10	2	48	....	....	26 00	26.00	.. ..	.. ..
9	48	48	..	....	2 3/16	12	10	2	48	....	....	30.00	30.00	.. ..	.. ..

Larger sizes or special mandrels made to order. When ordering give length over all and whether pulley is wanted on **right** or **left** as saw runs toward you. See code names on pages 139-141.

American Solid and Chisel-Tooth Circular Saws



These Saws are Made in our own Saw Works. Hoe Teeth and Shanks are Interchangeable With Ours.

They Are Patent Ground.

Oil Tempered Extra Tough and Strong

Warranty—Each saw is warranted true and free from flaws. Any saw failing to run well will be rehammered free of charge if **immediately** returned. If found to be defective in metal, temper, or tension within 30 days from delivery, it will be repaired or replaced **free** of **charge.**

Inserted tooth saws furnished with extra teeth and shanks as per list.

No extra charge for saws one gauge thicker than list. When more than two gauges thinner, add 5 per cent to list for each gauge.

Circular Saws 48 inches and larger, thinner than 10 gauge are not warranted.

Our chisel tooth files keep the teeth in hooked shape, same as new. They make the teeth last longer, run with less power, and cut smoother lumber. **Price, $6.00 per dozen.**

When ordering bits or shanks, always send sample or give the number of saw, which is stamped on blade near trade mark.

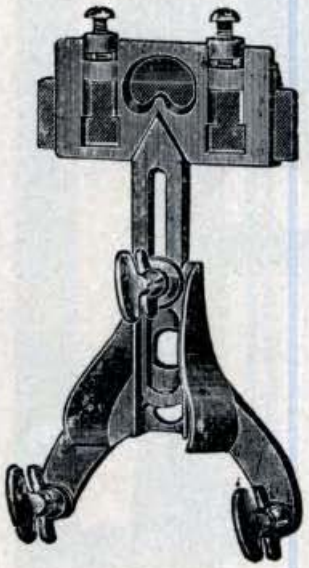
Saw Repairing promptly done at reasonable prices. Terms cash.

Price List of "American" Circular Saws

Solid Tooth Saws					Chisel Tooth Saws, No. 3 and 4 Teeth					
Diameter Inches	Thickness Gauge	Size of Hole Inches	List Price Each	Extra for each Gauge Heavier	Gauge	No. Teeth in Saw	Price	Extra for Each Gauge Heavier	No. of Bits Given with each Saw	Extra Shanks Given with each Saw
6	18		$ 1 80	$ .05						
7	18		2 10	.06						
8	18		2 40	.08						
9	17		2 80	.10						
10	16	1	3 30	.12						
12	15	1	4 40	.20	10		$18.00	$ .20	50	2
14	14	1	5 30	.25	10		21.00	.25	50	2
16	14	1	6 50	.30	10		24.00	.30	50	2
18	13	1	8 00	.40	10	12	27.00	.40	50	2
20	13	1	9 50	.50	10	12	31.00	.50	50	2
22	12	1	11 50	.60	10	12	35.00	.60	50	2
24	11	1	13 50	.70	10	12	39.00	.70	50	2
26	11	1	16 00	.85	10	14	43.00	.85	50	2
28	10	1	18 50	1.00	10	14	47.00	1.00	50	2
30	10	1	21 00	1.15	9	16	52.00	1.15	50	2
32	10	1	24 00	1.30	9	16	57.00	1.30	100	2
34	9	1	27 00	1.50	9	24	62.00	1.50	100	2
36	9	1	31 00	1.80	9	24	68.00	1.80	100	2
38	9	1	35 00	2.00	9	26	73.00	2.00	100	2
40	9	2	41 00	2.30	9	26	80.00	2.30	100	2
42	8	2	47 00	2.60	8	28	86.00	2.60	100	2
44	8	2	55 00	3.00	8	28	95.00	3.00	100	2
46	8	2	65 00	3.50	8	30	103.00	3.50	100	2
48	8	2	75 00	4.00	8	30	113.00	4.00	200	3
50	7	2	85 00	4.50	8	32	127.00	4.50	200	3
52	7	2	95 00	5.00	8	32	148.00	5.00	200	3
54	7	2	105 00	6.00	8	34	165.00	6.00	200	3
56	7	2	120 00	7.00	7	34	190.00	7.00	200	3
58	7	2	135 00	8.00	7	36	210.00	8.00	200	3
60	6	2	150 00	9.00	7	36	230.00	9.00	200	3
62	6	2	170 00	10.00	6	38	250.00	10.00	200	3
64	6	2	190 00	12.00	6	38	275.00	12.00	200	3
66	6	2	210 00	15.00	6	40	300.00	15.00	200	3
68	5	2	235 00	18.00	6	40	325.00	18.00	200	3
70	5	2	265 00	21.00	6	44	355.00	21.00	200	3
72	5	2	300 00	24.00	6	44	390.00	24.00	200	3

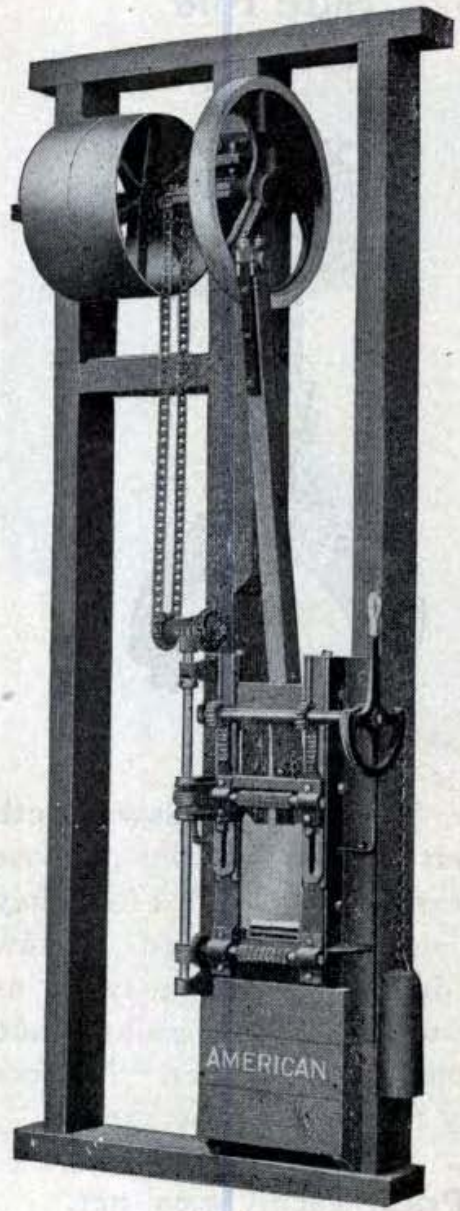
Always state speed at which saw is to run, and amount of power used.
State if for right hand or left hand mill.
Bits per hundred, $3.00 net. Shanks each, 30 cents, net.

Side File



The **Side File or Saw Tooth Jointer** is used for the purpose of dressing saw teeth after they have been set or swaged. A saw thus dressed will run twice as long without sharpening, and saw smoother lumber. A piece of any mill file can be used.

Price, each, $1.00 net.



American Excelsior Cutting Machine

Simplest, Strongest, Most Perfect, Easiest to Operate, Requires Least Power, Makes the Best Excelsior

In our improved machine we believe we are offering the excelsior manufacturer **Positively the Best** machine now on the market. We have not spared time, patience or expense in bringing it to a state of perfection which no other machine has yet approached. There are **cheaper** machines to be had, but manufacturers will find that they would be dear at half the cost, for experience has proven that the cheapest machine to buy is the Best—the **American.**

This machine is built throughout of the best obtainable materials and in the most thorough manner. It is heavy, strong, durable and embodies every improvement which the experience of practical excelsior makers and experts in this line have demonstrated as most desirable and necessary in such a machine. It will work equally well hard or soft woods.

The Wood Frame is constructed of best selected timber of ample proportions to withstand the working strains, and is carefully mortised and securely bolted together.

The Crank Shaft Bearings are very heavy, of the bracket **Chain-oiling** type lined with babbitt and provided with improved screw adjustment for taking up wear and lost motion.

The Guides are of such form as to insure the greatest strength and accuracy. These together with the feed rolls, cutter plate and other working parts are mounted on a substantial, **Self-contained, Cast-iron Frame,** thus securing accurate alignment, rigidity, perfect cutting and durability. **No Other Machine has This.**

The Sliding Frame which carries the adjustable feed roll is planed to accurately fit the slides on the cast iron frame, preventing side motion, thus causing the spurs to cut in the same slit in the wood every stroke, and **insuring a Clean, Uniform and Superior Grade of Excelsior** and making it possible to produce the **Finest Grades of Wood Wool.**

American Excelsior Cutting Machines

The Slides or Bearings on the cutter plate cover a space of about 20 inches and are of such form as to maintain the perfect working of the knife and spurs and permit of all lost motion and wear to be easily and quickly taken up. Lubrication is positive and is distributed the entire length of the guides.

Our **Improved Feed** is the crowning feature of our machine. All the objectionable features of the old style feeds have been eliminated. It is positive, accurate and in easy reach of the operator and can be kept thoroughly lubricated at all times, preventing excessive wear and annoyance. It is quickly and easily adjusted for all grades of excelsior; the change from one grade to another being made in five minutes or less. These points will be greatly appreciated by all practical excelsior makers.

Machines furnished single as shown in cut or as many in one frame as desired up to twenty-four.

Frame 10 feet high, floor space 4 feet 2 inches by 12 inches, tight and loose pulleys 20 inches by 6 inches, speed 200 r. p. m.. Horse-power required for a single machine 5; when mounted in gangs of six or more 3 H. P. per machine, delivered at the machine, is sufficient. Capacity per machine is 700 to 1,000 lbs. per day.

Weight of one machine complete as shown, 1,200 lbs.

Weight of iron parts only for one machine, 750 lbs.

Price of one machine complete as shown and described, **$210.00**. Code name **"Excelsior."**

Price when mounted two or more in one frame, each, **$200.00.**

Price of iron parts only for one machine,**$190.00.** Code name, **"Excel."**

One knife, two spur boxes, two sets of spurs and two feed-change gears, suitable for the usual grades of excelsior, go with each machine.

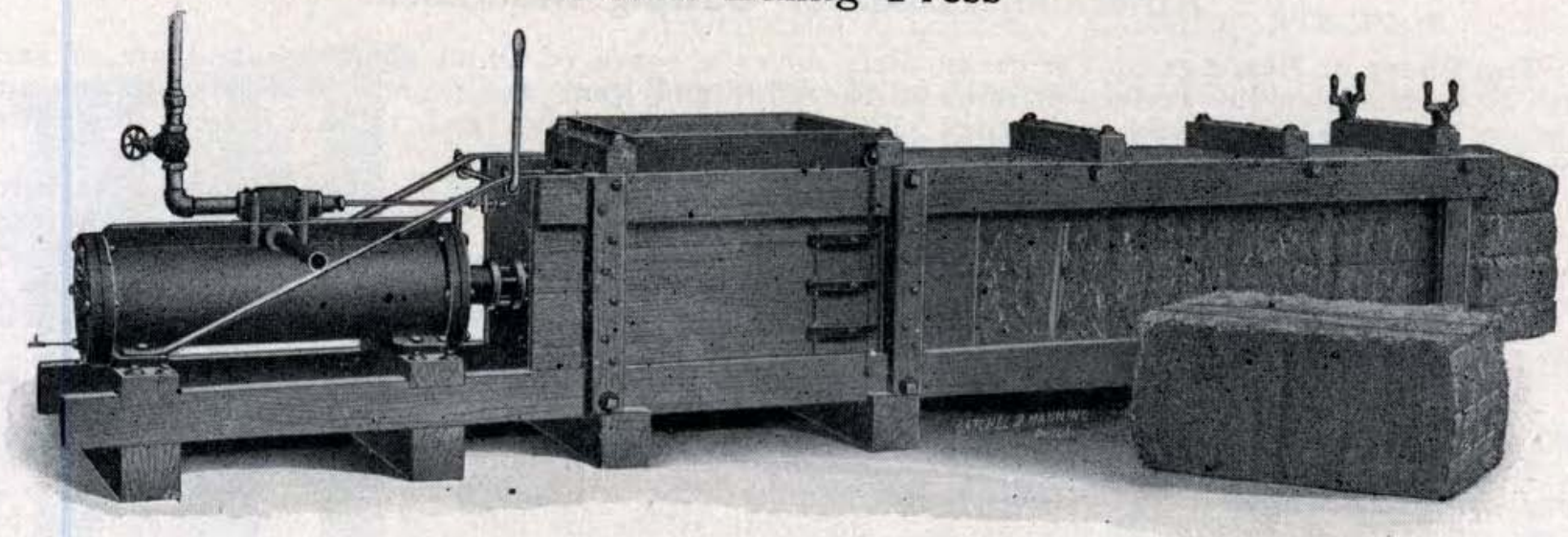
A complete plant consists of the battery of machines, a wood splitter, cut-off saw, baling press, knife and spur grinder and the necessary power with shafting, hangers, pulleys and belting.

Wood should be cut with square ends from 15½ inches to 18 inches long and may be any size up to 6 inches—round wood 6 inches diameter or less need not be split and when straight and free from knots makes a superior grade of excelsior. Machine will be made to take blocks from 12 inches to 18 inches long at an additional cost of $5.00 each net.

A cord of wood will make about 2,000 lbs. of excelsior.

NOTE—The peculiar construction of our machine makes it practicable for those desiring to do so to buy the iron parts only and construct their own wood work from drawings which we furnish, and thus obtain accurate working machines while saving in first cost and freight.

Steam Baling Press



These presses are constructed throughout in a most thorough manner and are lined with steel on the bottom. They possess many advantages over the geared or belt power types and can be used in any plant where steam is used as the motive power, by connecting direct to the boiler by steam pipe. This allows the press to be placed in any convenient position regardless of the location of the driving shaft.

There is very little machinery about it and **nothing to break or get out of order.** As the cylinder is mounted in a direct line with the plunger and body of the press, the stroke is always central and the pressure evenly distributed and uniform.

No power is consumed when the press is not in motion. When it is operated continuously only the equivalent of about 5 H. P. of steam is consumed.

The operator has **complete control** of the plunger and as the cylinder is so constructed as to be self-cushioning, no injury can be done by throwing the valve full open in either direction.

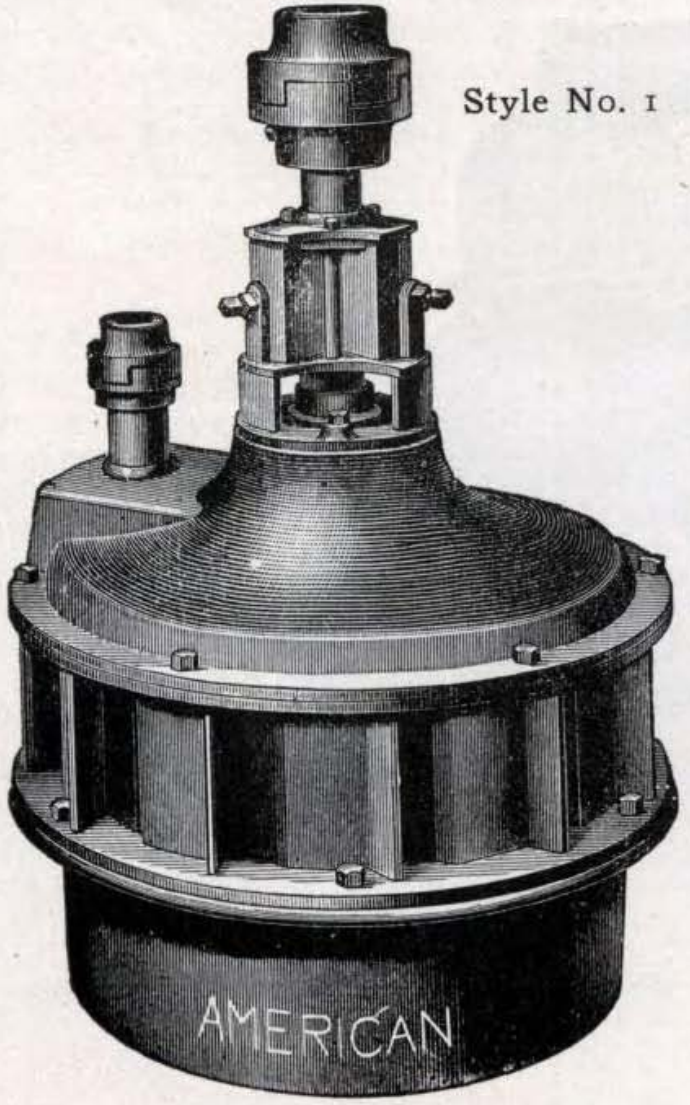
The standard press is regularly made for a bale 18 inches by 22 inches, but when so ordered can be made for either 14 inch by 18 inch or 16 inch by 20 inch bales.

Diameter of cylinder, 10 inches.
Length of stroke, 36 inches.
Size of steam pipe, 2 inches.
Size of exhaust pipe, 2 inches.

Extreme length of press, 15½ feet.
Shipping weight complete, 2,000 lbs.
Price, complete as shown, **$380.00.**
Code name, **"Baler."**

American Balanced Gate Turbine Water Wheels

Our **Turbine Water Wheels** are built in several styles suitable for any situation or condition where water power is desired. They are made in sizes from 6 inches to 72 inches, which under various heads of water will develop from 1 to 1,600 H. P. We will furnish drawings, specifications and estimates for any requirement when desired.



Style No. 1

This style is more commonly used than any other, being less expensive and adapted to setting in wood penstocks, which any millwright or good mechanic can easily construct.

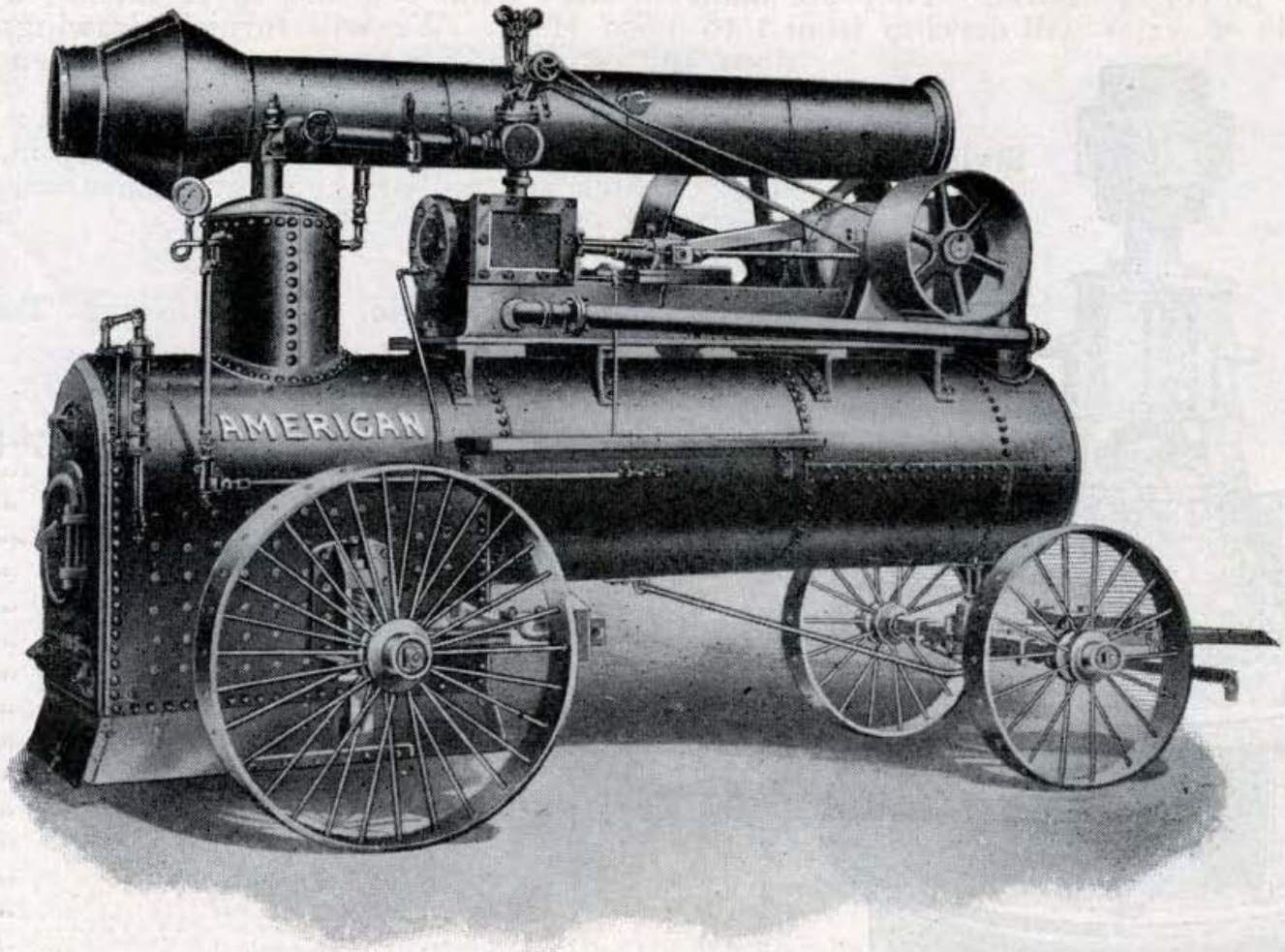
Price List Style No. 1. Code Name **"Turban."**

Complete as shown in cut.

10 inch	Weight	180 lbs.	Price $	95.00
12 "	"	260 "	"	100.00
14 "	"	360 "	"	110.00
16 "	"	530 "	"	120.00
18 "	"	690 "	"	135.00
21 "	"	840 "	"	155.00
24 "	"	1170 "	"	175.00
27 "	"	1540 "	"	205.00
30 "	"	1710 "	"	245.00
33 "	"	2400 "	"	285.00
36 "	"	3100 "	"	325.00
42 "	"	4000 "	"	420.00
48 "	"	5700 "	"	530.00
54 "	"	6800 "	"	650.00
60 "	"	8500 "	"	800.00
66 "	"	10500 "	"	1000.00
72 "	"	13000 "	"	1250.00

Special **Water Wheel Catalog** giving full information will be sent on application.

American Portable Boilers and Engines



All boilers have water front and open bottom. Furnished mounted on wheels or skids as preferred. See price list on next page.

Our Portable Engines, 10 to 35 horse-power, are particularly adapted for portable work where no expensive or permanent foundation is required, the outfit being complete and ready for use. The engine may at any time be detached from boiler by simply disconnecting the steam pipe and taking out the bolts holding it to the iron saddles on the boiler, leaving no holes to plug. The sizes of pulleys furnished will be found suitable for nearly all kinds of work, but can be changed if necessary, adding or deducting price as the case may be.

Each engine is thoroughly tested under steam (after cold water test) before shipment.

These Engines Complete have the necessary oil cups, sight feed lubricator, steam gauge, water gauge, whistle, gauge cocks, throttle, blow-off, check, stop and safety valves, smoke stack, grates, governor with belt, pulleys, pet cocks and wrenches. Steam and exhaust connections and injector furnished and fitted. Long stack and guy wires furnished when mounted on skids.

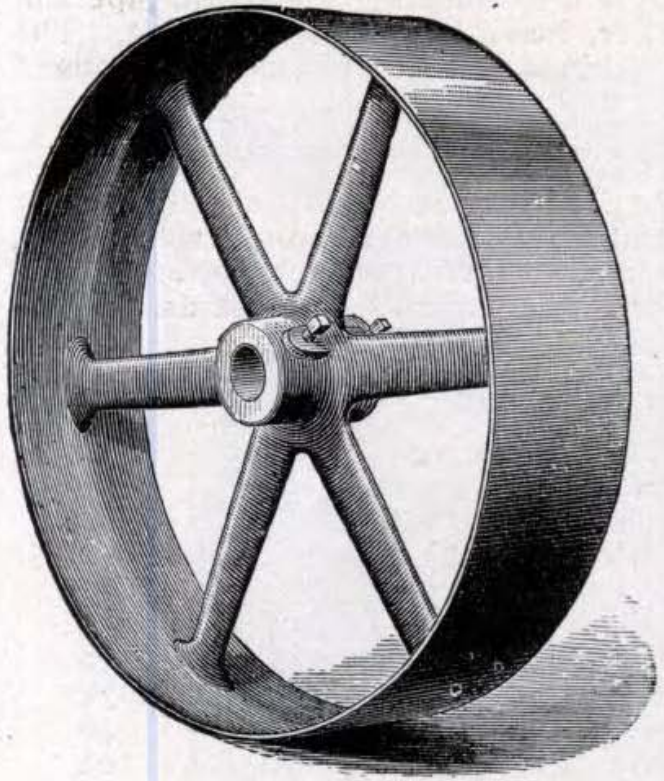
Dimensions and Prices

Horse-Power	10	15	20	25	30	35
Size of Engine cylinder, inches..	7 x 10	8 x 10	9 x 12	10 x 12	10 x 12	11 x 13
Revolutions per minute	190	190	160	160	190	160
Diameter of pulleys, in inches ..	18 & 44	20 & 44	20 & 48	24 & 52	24 & 52	24 & 60
Face of Pulleys, in inches	8 & 10½	10 & 10½	10 & 12½	12 & 12½	12 & 12½	12 & 12½
Diameter of Boiler, inches	32	32	34	36	36	40
Length of Furnace, inches	38	44	52	52	52	52
Height of Furnace, inches	33	33	36	38	40	42
Width of Furnace, inches	26	26	28	30	30	34
Number of 3 inch Tubes	26	26	28	34	34	40
Length of Tubes, inches	72	78	90	96	120	102
Shipping Weight, lbs., on skids..	6500	7300	8800	10000	10500	12100
Shipping Weight, lbs., on wheels	8200	9000	10700	12000	12500	14500
Price Complete, on skids	**$715.00**	**$776.00**	**$954.00**	**$1058.00**	**$1136.00**	**$1275.00**
Code Name, on skids	**Lava**	**Lina**	**Louise**	**Lydia**	**Lynx**	**Lonia**
Price Complete, on wheels	**$961.00**	**$1022.00**	**$1214.00**	**$1337.00**	**$1415.00**	**$1575.00**
Code Name, on wheels	**Lebo**	**Lenox**	**Lorna**	**Lowe**	**Lyre**	**Lyter**

Other styles furnished—write for special **Engine** and **Boiler** catalog.

Machine Molded Solid Cast Iron Pulleys

Turned, Bored, Balanced with Set Screws or Key Seat



Heavy Rim Pulleys and Balance Wheels up to 60 inches diameter made to order.

PRICE LIST

Diam.	Face 3 ins.		4 ins.		5 ins.		6 ins.		7 ins.	
	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt
3	$1.55	....	$1.70	....	$1.85	.....	$2.00	....	....	....
4	1.65	....	1.80	....	1.95	.....	2.10	....	....	....
5	1.75	....	1.95	....	2.15	.....	2.35	....	....	....
6	1.95	$2.55	2.10	$2.80	2.30	$3.10	2.55	$3.45	$2.80	$3.80
7	2.10	2.75	2.25	3.00	2.50	3.35	2.75	3.70	3.00	4.05
8	2.25	2.95	2.45	3.20	2.70	3.55	2.95	3.95	3.20	4.35
9	2.40	3.15	2.60	3.45	2.85	3.80	3.15	4.25	3.45	4.65
10	2.80	3.60	3.00	3.95	3.25	4.30	3.50	4.65	3.80	5.10
11	2.90	3.75	3.10	4.15	3.45	4.60	3.80	5.10	4.10	5.50
12	3.00	3.90	3.30	4.30	3.60	4.80	4.00	5.45	4.30	5.90
13	3.00	3.95	3.40	4.45	3.80	5.00	4.20	5.60	4.55	6.20
14	3.50	4.40	3.80	4.90	4.20	5.00	4.50	6.20	4.90	6.55
15	3.70	4.70	4.00	5.25	4.30	5.80	4.70	6.40	5.10	6.95
16	3.90	5.00	4.20	5.55	4.50	6.00	5.00	6.70	5.50	7.45
17	4.10	5.30	4.40	5.85	4.70	6.40	5.20	7.15	5.70	7.90
18	4.30	5.60	4.60	5.95	4.95	6.75	5.50	7.60	6.05	8.45
20	4.70	6.10	5.00	6.65	5.55	7.55	6.20	8.60	6.85	9.60
22	....	....	5.55	7.40	6.15	8.45	6.90	9.60	7.65	10.80
24	....	....	6.20	8.15	7.00	9.35	7.80	10.65	8.45	12.00
26	....	....	6.90	9.15	7.85	10.45	8.70	11.90	9.65	13.40
28	....	....	8.00	10.10	8.50	11.55	9.90	13.15	10.90	14.80
30	....	....	8.55	11.10	9.80	12.70	11.10	14.55	12.20	16.20
32	....	....	9.40	12.20	10.85	14.10	12.30	16.05	13.55	17.90
34	....	....	10.40	14.00	12.05	15.65	13.70	17.60	15.00	19.70
36	....	....	11.50	15.45	13.30	17.30	15.10	19.20	15.70	21.45
38	....	....	....	....	....	....	16.70	21.55	18.50	23.45
40	....	....	....	....	....	....	18.60	22.90	20.20	25.50
42	....	....	....	....	....	....	20.30	25.70	22.10	27.55
44	....	....	....	....	....	....	22.20	28.20	24.15	29.75
46	....	....	....	....	....	....	24.20	30.80	26.20	33.15
48	....	....	....	....	....	....	26.20	33.40	28.30	35.60

Finished Flange Pulleys

Made to order with one, two, or three flanges

Diameter Inches	Price Each Flange	Diameter Inches	Price Each Flange	Diameter Inches	Price Each Flange	Diameter Inches	Price Each Flange
3 to 8	$2.35	15 to 16	$3.60	23 to 24	$5.50	31 to 32	$8.50
8½ to 10	2.60	17 to 18	4.00	25 to 26	6.05	33 to 34	9.35
10½ to 12	2.85	19 to 20	4.40	27 to 28	6.90	35 to 36	10.20
12½ to 14	3.15	21 to 22	4.95	29 to 30	7.70		

Price List of Solid Cast Iron Pulleys

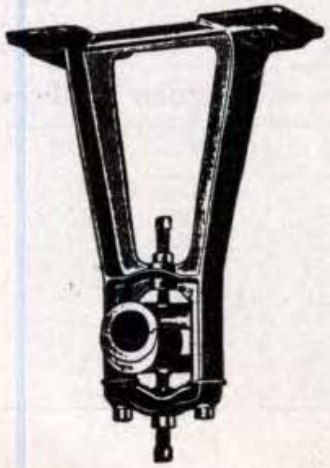
Diam. In.	Face 8 Ins.		9 Ins.		10 Ins.		11 Ins.		12 Ins.		13 Ins.		14 Ins.		15 Ins.	16 Ins.
	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Single Belt	Double Belt	Double Belt	Double Belt
3	....	....	....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	....	....	....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	....	....	....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	$3.05	$4.15	....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7	3.25	4.45	....	$4.85	....	$5.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	3.45	4.75	....	5.20	....	5.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	3.90	5.10	$4.30	5.60	....	6.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	4.10	5.50	4.50	6.00	$5.00	6.55	.....	$7.10	.....	$7.65	.....	.....	.....	.....	.....	.....
11	4.40	5.95	4.70	6.45	5.25	7.05	.....	7.65	.....	8.20	.....	.....	.....	.....	.....	.....
12	4.60	6.40	4.95	6.95	5.50	7.55	.....	8.15	.....	8.75	.....	.....	.....	.....	.....	.....
13	5.00	6.80	5.40	7.45	5.80	8.10	.....	8.75	.....	9.40	.....	.....	.....	.....	.....	.....
14	5.20	7.20	5.70	7.90	6.10	8.60	.....	9.30	.....	10.00	.....	$10.80	.....	$11.60	.....	.....
15	5.50	7.65	6.00	8.40	6.50	9.15	$6.95	9.90	.....	10.70	.....	11.50	.....	12.35	.....	.....
16	6.00	8.20	6.50	9.00	7.00	9.90	7.00	10.60	$8.00	11.45	.....	12.35	.....	13.25	$14.20	$15.15
17	6.20	8.75	6.80	9.60	7.40	10.45	7.90	11.30	8.50	12.25	.....	13.20	.....	14.15	15.15	16.15
18	6.60	9.30	7.15	10.20	7.75	11.10	8.40	12.05	9.10	13.05	.....	14.05	.....	15.10	16.15	17.20
20	7.50	10.60	8.15	11.70	8.85	12.80	9.60	13.90	10.40	15.00	$11.40	16.20	$12.40	17.40	18.60	19.80
22	8.40	12.00	9.15	13.20	9.95	14.50	10.80	15.75	11.70	17.00	12.85	18.35	14.05	19.70	21.05	22.40
24	9.40	13.40	10.35	14.80	11.30	16.20	12.10	17.65	13.30	19.00	14.90	20.50	15.70	22.00	23.55	25.10
26	10.60	14.90	11.65	16.40	12.70	18.00	13.75	19.60	15.00	21.10	16.30	22.80	17.65	24.55	26.30	28.10
28	11.90	16.40	13.70	18.05	14.30	19.80	15.45	21.60	16.85	23.30	18.20	25.20	19.55	27.10	29.10	31.10
30	13.20	18.00	14.60	19.80	15.90	21.60	17.15	23.50	18.70	25.50	20.05	27.60	21.80	29.70	32.45	34.20
32	14.80	19.85	16.20	22.20	17.60	23.85	19.00	25.90	20.55	28.00	22.10	30.30	23.90	32.65	35.05	37.45
34	16.30	21.70	17.80	23.85	19.30	26.10	20.85	28.30	22.50	30.50	24.20	33.05	25.90	35.60	38.15	40.70
36	18.00	23.10	19.55	26.00	21.10	28.30	22.70	30.70	24.50	33.10	26.30	35.80	28.10	38.55	41.30	44.05
38	20.25	25.90	22.55	28.35	24.85	30.80	27.15	33.35	29.45	35.95	31.75	38.80	34.05	41.65	44.65	47.65
40	21.80	28.10	22.75	30.70	24.75	33.30	27.50	36.05	29.80	38.75	30.85	41.75	32.90	44.80	47.85	50.90
42	23.90	30.30	24.60	33.05	26.90	35.85	28.85	38.75	31.10	41.60	33.15	44.75	35.30	47.95	51.15	54.40
44	26.10	32.70	27.70	35.65	29.30	38.65	31.10	41.80	33.40	44.90	35.65	48.25	37.90	51.60	55.05	58.50
46	28.20	35.45	29.90	38.35	31.60	41.55	33.40	44.90	35.80	48.20	38.20	51.75	40.60	55.30	58.95	62.60
48	30.40	38.20	32.20	41.05	34.00	44.45	35.70	48.00	38.20	51.50	40.75	55.25	43.30	59.00	62.85	66.70

Additional List Prices per Pair for Tight and Loose Pulleys to be Added to List Prices of Regular Pulleys

Face Inches	3	4	5	6	7	8	9	10	11	12
Bore										
$1\frac{3}{16}$	$0.80	$1.10	$1.40	$1.70	$2.00	$2.30	$2.60	$2.90	$3.20	$3.50
$1\frac{7}{16}$	.95	1.25	1.60	1.95	2.30	2.65	2.90	3.25	3.60	3.95
$1\frac{11}{16}$	1.15	1.45	1.80	2.15	2.50	2.85	3.20	3.55	3.90	4.30
$1\frac{15}{16}$	1.30	1.65	2.00	2.35	2.70	3.05	3.40	3.75	4.20	4.70
$2\frac{3}{16}$	1.45	1.80	2.20	2.65	3.10	3.55	4.00	4.45	4.90	5.35
$2\frac{7}{16}$	1.60	2.05	2.50	2.95	3.40	3.85	4.30	4.75	5.20	5.65
$2\frac{11}{16}$	1.80	2.25	2.70	3.15	3.60	4.05	4.50	4.95	5.40	5.90
$2\frac{15}{16}$	2.05	2.50	2.95	3.45	3.95	4.45	4.95	5.45	5.95	6.45

Standard Price List of Shafting, Couplings, Set Collars and Boxes

Size of Shaft—inches	Weight of Shaft per foot—lbs.	Price of Shaft per foot	Key Seat per foot	Flange Coupling each	Compression Clamp Coupling	Compression Flange Coupling	Jaw Clutch Coupling	Safety Set Collars	Adjustable Chain Oiling Post Hanger	Rigid Post Hanger Chain Oiling	Adjustable Chain Oiling Pillow Block	Rigid Pillow Block	Solid Journal Box	Common Flat Boxes	Eccentric Boxes
1	2.68	$.15	$.50	$6.00	$5 00	$6 00	$8 00	$.65	$4.00	$4.00	$4.00	$1 30	$ 75	$1.00	.....
1 3/16	3.77	.21	.50	6.00	5.00	6.00	8.75	.80	4.25	4.00	4 00	1.40	90	1.20	$8 50
1 1/4	4.17	.23	.55	6 50	5.50	6.00	9 00	.85	4.50	4.50	4.50	1 60	1.00	1 25	.....
1 5/16	4.60	.25	55	6.50	5 50	6 00	9 25	.90	4.50	4.50	4.50	2 10	1.10	1.30	.....
1 7/16	5.52	.31	.55	7 00	6 00	6 50	9.60	1.00	5.25	5.00	5 00	2.10	1.20	1.60	10.00
1 11/16	7.61	.39	.60	8.00	7 00	7.50	10.70	1.20	6 00	5.75	5.50	2.70	1.40	2 20	11.50
1 15/16	10.03	.51	.70	9.00	8.50	9 00	12.70	1.40	7.00	6.75	6.50	3 50	1.60	2.90	13.00
2 3/16	12.80	.65	.80	10.50	10.00	10.00	14.90	1.60	8.75	8.50	8.00	4.00	1.80	3.70	15.00
2 5/16	14.35	.73	.85	11.50	10 50	10 50	16.00	1 65	9.25	9.50	9.00	4 60	1.90	4 00	.....
2 7/16	15.89	.80	.90	12 00	11.00	11.50	17 75	1.80	10.25	10.00	9.50	5 50	2 00	4.25	16.50
2 11/16	19.31	.97	1.00	14 00	12.50	14.00	20.50	2.10	13.50	13 00	11.50	7 00	2.40	5.40	18.75
2 15/16	23.06	1.16	1.10	17.50	14 00	17.00	24 00	2.40	15.50	15.00	13 50	8 50	3 00	6.50	21.50
3 3/16	27.16	1.43	1.20	21.00	16.00	20.00	28 00	2.70	19.00	18 50	16.75	11.00	3.70	9.50	.....
3 7/16	31.58	1.66	1 25	24.00	20 00	24 00	36.00	3.00	22.50	22.00	20.00	12.50	4.75	10.50	.....
3 11/16	36.40	2.01	1 30	28 00	24.00	27.00	44.00	3.30	28.00	26.50	24.50	14 00	6 00	11 50	.....
3 15/16	41.40	2 28	1 40	32.00	28.00	32 00	53.00	3 60	33.50	31 50	29.00	16.00	7 50	13.75	.....



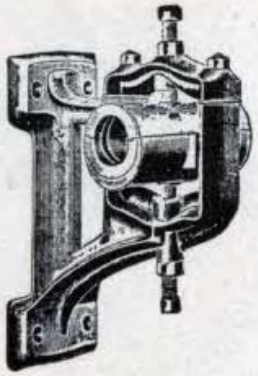
Adjustable Self-Oiling Drop Hangers

Size Shaft ins.	Drop 7"-9"	10"-13"	14"-17"	18" 21"	22"-24"	25"-27"
1 3/16	$3.50	$4.00	$4.25	$5.00	$6 00	.....
1 7/16	4.20	4.50	5.00	5.25	6 60	.....
1 11/16	4.90	5.25	5.75	6.00	7 00	$ 8.00
1 15/16	6 00	6.50	7.00	8 00	8.50	9 00
2 3/16	7.75	8 25	9.00	10.00	10 50	11.00
2 7/16	9.00	9.75	10.75	12.00	12 75	13 50
2 11/16	. ..	12.25	13.25	15 25	16.25	17.25
2 15/16	....	14 75	16 00	18 25	19 25	20 25
3 3/16	....	18 25	20 50	22.25	23 75	24.50
3 7/16	....	21.50	24.00	26.25	28.00	29.50

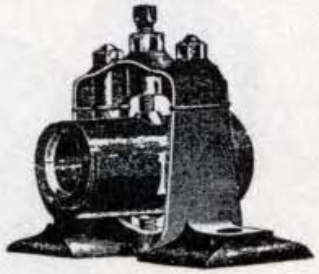
Clamp Compression Coupling

Jaw Clutch Coupling with Square or Spiral Jaws

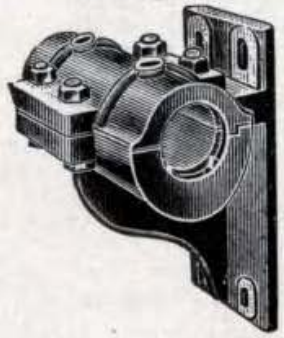
Adjustable Chain Oiling Post Hanger



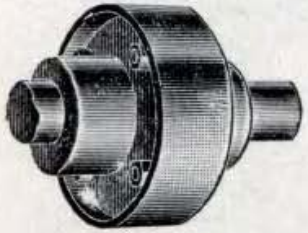
Adjustable Chain Oiling Pillow Block



Rigid Chain Oiling Post Hanger



Compression Flange Coupling



Flange Face Coupling

Common Flat Box

For prices see page 132

Standard Wood Pulley Price List

Diam. Inches	Width of Face Inches								
	3	4	5	6	7-8	9-10	11-12	13-14	15-16
3-4	$2.80	$2.90	$3.10	$3.30	$3.70	$4.10	$4.50		.....
5	2.85	2.95	3.20	3.40	3.85	4.30	4.75	.....	.....
6	2.90	3.00	3.25	3.50	4.00	4.50	5.00	.....	.....
7	2.95	3.05	3.35	3.60	4.15	4.70	5.25	$5.80	.....
8	3.00	3.10	3.40	3.70	4.30	4.90	5.50	6.10	.....
9	3.10	3.25	3.60	3.90	4.55	5.20	5.85	6.50	.....
10	3.25	3.40	3.75	4.10	4.80	5.50	6.20	6.90	$7.60
11	3.50	3.70	4.10	4.50	5.30	6.10	6.90	7.70	8.50
12	3.75	4.00	4.45	4.90	5.80	6.70	7.60	8.50	9.40
13	....	4.30	4.80	5.30	6.30	7.30	8.30	9.30	10.30
14	....	4.60	5.15	5.70	6.80	7.90	9.00	10.10	11.20
15	....	4.90	5.50	6.10	7.30	8.50	9.70	10.90	12.10
16	....	5.20	5.85	6.50	7.80	9.10	10.40	11.70	13.00
17	....	5.50	6.20	6.90	8.30	9.70	11.10	12.50	13.90
18	....	5.80	6.55	7.30	8.80	10.30	11.80	13.30	14.80
19	....	6.10	6.90	7.70	9.30	10.90	12.50	14.10	15.70
20	....	6.40	7.25	8.10	9.80	11.50	13.20	14.90	16.60
22	....	7.00	7.95	8.90	10.80	12.70	14.60	16.50	18.40
24	....	7.70	8.80	9.90	12.10	14.30	16.50	18.70	20.90
26	....	8.40	9.65	10.90	13.40	15.90	18.40	20.90	23.40
28	....	9.10	10.50	11.90	14.70	17.50	20.30	23.10	25.90
30	....	9.80	11.35	12.90	16.00	19.10	22.20	25.30	28.40
32	....	10.50	12.20	13.90	17.30	20.70	24.10	27.50	30.90
34	....	11.30	13.15	15.00	18.70	22.40	26.10	29.80	33.50
36	....	12.10	14.10	16.10	20.10	24.10	28.10	32.10	36.10
38	....	.....	.....	17.20	21.50	25.80	30.10	34.40	38.70
40	....	.....	.....	18.30	22.90	27.50	32.10	36.70	41.30
42	....	.....	.....	19.60	24.60	29.60	34.60	39.60	44.60
44	....	.....	.....	20.90	26.30	31.70	37.10	42.50	47.90
46	....	.....	.....	22.30	28.10	33.90	39.70	45.50	51.30
48	....	.....	.....	23.80	30.00	36.20	42.40	48.60	54.80
50	....	.....	.....	25.40	32.00	38.60	45.20	51.80	58.40
52	....	.....	.....	27.10	34.10	41.10	48.10	55.10	62.10
54	....	.....	.....	28.90	36.30	43.70	51.10	58.50	65.90
56	....	.....	.....	30.80	38.60	46.40	54.20	62.00	69.80
58	....	.....	.....	32.80	41.00	49.20	57.40	65.60	73.80
60	....	.....	.....	34.90	43.50	52.10	60.70	69.30	77.90

Spur Gears

Bevel Gears

Mitre Gears

Safety Set Collar

Eccentric Box

Bevel Gears

Diam. In.	Face In.	No. Teeth	Wt. Lbs.	Price Pair
2¾	1¼	14	2½	$2.00
5		25	5	
4½	1½	25	5	3.00
8½		45	10	
6⅜	1¾	26	10	5.00
12¾		52	21	
8	2	25	12	5.50
12		38	22	
11	3	28	25	10.00
14		36	45	
6	2½	19	16	11.00
24		76	70	
12	3	30	40	15.00
25		62	100	
12	4	25	80	18.00
24		50	140	

Bevel Mortise Gears

Diam. In.	Face In.	No. Teeth	Wt. Lbs.	Price Pair
9½	3½	20	35	$32.00
19		40	80	
12	5	23	48	65.00
37½		72	275	
15	4	30	65	40.00
18		36	95	
12	4½	22	55	45.00
24		44	130	

Mitre Gears

Diam. In.	Face In.	No. Teeth	Wt. Pair Lbs.	Price Pair
6	1¾	20	12 lbs.	$3.00
8	2¼	18	28 "	4.00
10	1	42	35 "	4.50
12	2½	37	55 "	6.00
12	3	34	90 "	7.00
18	3½	38	125 "	12.00
18	4½	33	200 "	15.00
24	5	38	400 "	25.00

Mitre Mortise Gears

15	3½	32	45 / 65	$30.00
16	4	32	70 / 80	35.00
20	4½	32	110 / 140	40.00
24	4½	44	135 / 150	55.00
24	6	36	225 / 240	65.00

Sole Plate.

Rigid Pillow Block

Solid Journal Box

For Prices See Page 132

Leather, Rubber and Gandy Belting

Rubber Belt

We can **Ship at once** from stock the **Best Grades** of rubber, leather or Gandy belting. For saw mill use or for outdoor heavy work we recommend the "Gandy" Belt as it is not affected by change of weather. **Prices very low. Endless Belts** furnished when desired at slight advance in price. Double leather belts twice the price of single.

Best Rawhide Lace Leather, Cut or in Sides

PRICE LIST PER RUNNING FOOT

Gandy Belt

Gandy Belt				Rubber Belt					Leather Belt			
Width Ins.	4 Ply	5 Ply	6 Ply	Width Ins.	3 Ply	4 Ply	5 Ply	6 Ply	Width Ins.	Price	Width Ins.	Price
2	$0.20	$0.25	$0.29	2	$0.20	$0.25	$0.31	$0.37	½	$0.12	6	$1.44
2½	.25	.31	.36	2½	.25	.31	.38	.46	⅝	.15	6½	1.56
3	.30	.38	.44	3	.30	.37	.45	.55	¾	.18	7	1.68
3½	.35	.44	.51	3½	.35	.43	.53	.65	⅞	.21	8	1.92
4	.40	.50	.58	4	.40	.50	.61	.75	1	.24	9	2.16
4½	.45	.56	.65	4½	.45	.55	.69	.84	1¼	.30	10	2.40
5	.50	.63	.73	5	.50	.61	.76	.91	1½	.36	11	2.64
6	.60	.75	.87	6	.60	.72	.89	1.08	1¾	.42	12	2.88
7	.70	.88	1.02	7	.70	.84	1.04	1.25	2	.48	13	3.12
8	.80	1.00	1.16	8	.80	.96	1.19	1.44	2¼	.54	14	3.36
9	.90	1.13	1.31	9	.90	1.07	1.34	1.60	2½	.60	15	3.60
10	1.00	1.25	1.45	10	1.00	1.20	1.49	1.77	2¾	.66	16	3.84
11	1.10	1.38	1.60	11	1.10	1.32	1.63	1.96	3	.72	17	4.08
12	1.20	1.50	1.74	12	1.20	1.43	1.78	2.15	3¼	.78	18	4.32
13	1.37	1.71	1.99	13	1.30	1.56	1.95	2.34	3½	.84	19	4.56
14	1.47	1.84	2.13	14	1.40	1.69	2.11	2.54	3¾	.90	20	4.80
15	1.58	1.98	2.29	15	1.52	1.83	2.28	2.74	4	.96	21	5.04
16	1.68	2.10	2.44	16	1.65	1.96	2.44	2.94	4½	1.08	22	5.28
18	1.89	2.36	2.74	18	1.87	2.22	2.77	3.33	5	1.20	23	5.52
20	2.10	2.63	3.05	20	2.09	2.49	3.10	3.73	5½	1.32	24	5.76

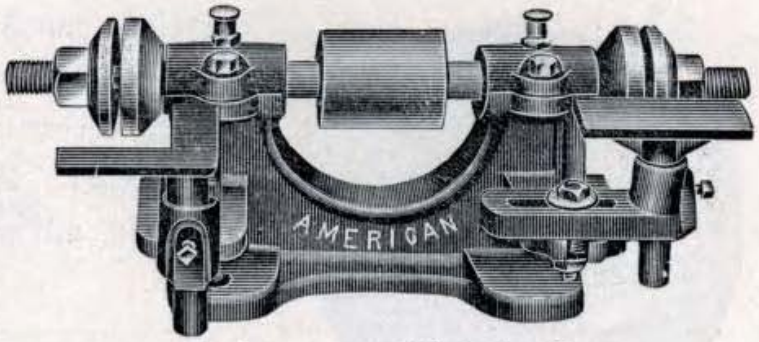
Emery Wheels and Emery Grinding Machines

Emery Wheels of all sizes, shapes and grades for gumming saws, making moulding cutters and all other kinds of grinding, shipped from stock at lowest prices. Ask for discount.

Carborundum Wheels are harder and faster cutting than emery wheels. We can supply them also in any shape or size desired. Discounts quoted on request.

Price List of Wheels

Diam. in Inches	Thickness of Wheels in Inches										Revol's per Minute
	½	¾	1	1¼	1½	2	2½	3	3½	4	
1½	$0.40	$0.45	$0.50	$0.55	$0.60	$0.70	$0.80	$0.90	$1.00	$01.10	14.000
2	.50	.55	.60	.65	.70	.80	.90	1.00	1.10	1.20	10.000
2½	.65	.75	.85	.95	1.05	1.25	1.45	1.65	1.85	2.05	8.500
3	.80	.95	1.10	1.25	1.40	1.70	2.00	2.30	2.60	2.90	7.000
3½	.95	1.15	1.35	1.55	1.75	2.15	2.55	2.95	3.35	3.75	6.035
4	1.10	1.35	1.60	1.85	2.10	2.60	3.10	3.60	4.10	4.60	5.300
4½	1.25	1.55	1.85	2.15	2.45	3.05	3.65	4.25	4.85	5.45	4.700
5	1.40	1.80	2.20	2.60	3.00	3.80	4.60	5.40	6.20	7.00	4.200
6	1.75	2.40	3.05	3.70	4.35	5.65	6.95	8.25	9.55	10.85	3.500
7	2.15	3.00	3.85	4.70	5.55	7.25	8.95	10.65	12.35	14.05	3.000
8	2.60	3.60	4.60	5.60	6.60	8.60	10.60	12.60	14.60	16.60	2.600
9	3.10	4.25	5.40	6.55	7.70	10.00	12.30	14.60	16.90	19.20	2.300
10	3.65	5.00	6.35	7.70	9.05	11.75	14.45	17.15	19.85	22.55	2.100
12	4.00	6.00	7.40	9.00	10.70	14.05	17.40	20.75	24.25	27.50	1.800
14	6.25	8.45	10.65	12.85	15.05	19.45	23.85	28.25	32.65	37.05	1.500
16	8.00	10.85	13.70	16.55	19.40	25.10	30.80	36.50	42.20	47.00	1.300
18	9.15	13.25	17.00	20.75	24.50	32.00	39.50	47.00	54.50	62.00	1.150
20	11.25	15.75	20.25	24.75	29.25	38.25	47.25	56.25	65.25	74.25	1.050
22	13.00	19.00	25.00	31.00	37.00	49.00	61.00	73.00	85.00	97.00	.950
24	15.00	22.00	29.00	36.00	43.00	57.00	71.00	85.00	99.00	113.00	.850



Code name, **"Grinder."**

This machine is intended for saw gumming, making moulding cutters, tool grinding and other kinds of emery grinding.

It will carry two wheels at one time up to 12 inches diameter by 1½ inch face with 1 inch hole.

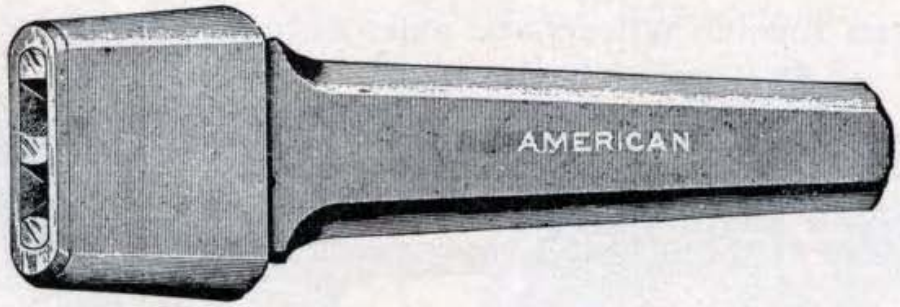
The spindle is steel 1⅛ inch diameter, 22 inches long, with pulley 3 inches by 3½ inches and runs in babbitted boxes.

Weight as shown 60 lbs.

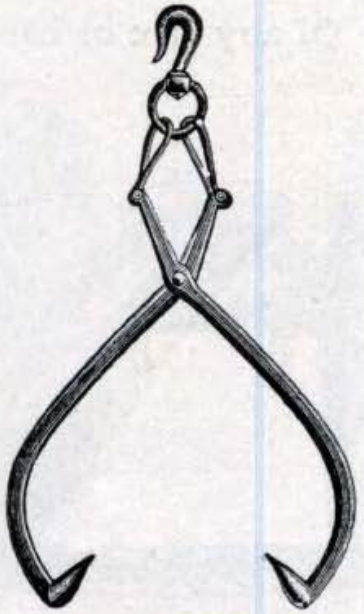
Price as shown **$14.00**

Can furnish countershaft when desired with 6 inch by 3 inch T. and L. Pulleys and 12 inch by 3 inch driving pulley for **$14.00.**

Saw Swedges and Lumbering Tools



No. 0. For Saws 5 to 7 gauge ..... each, **$3.50**
No. 1. For Saws 8 to 12 gauge ..... each, **$3.00**
No. 2. For Saws 12 to 15 gauge ..... each **$2.50**
No. 3. For Saws 15 to 20 gauge ..... each, **$2.00**



Skidding Tongs

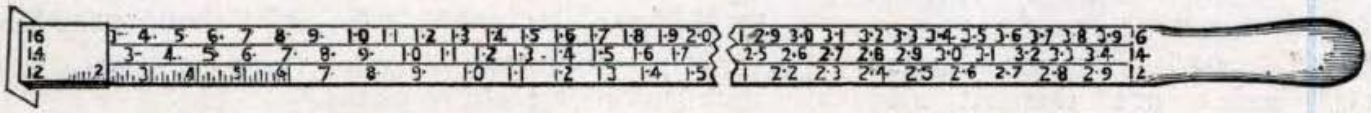
Open 24″ to 30″ each **$8.00.**

Handy Cant Hooks

No. 1. Small size, 4½ ft. handle, **$1.25**, net.
No. 2. Large size, 5½ ft. handle, **$1.50**, net.

Swamp Hook, each, **$2.50.**

Log and Lumber Rules

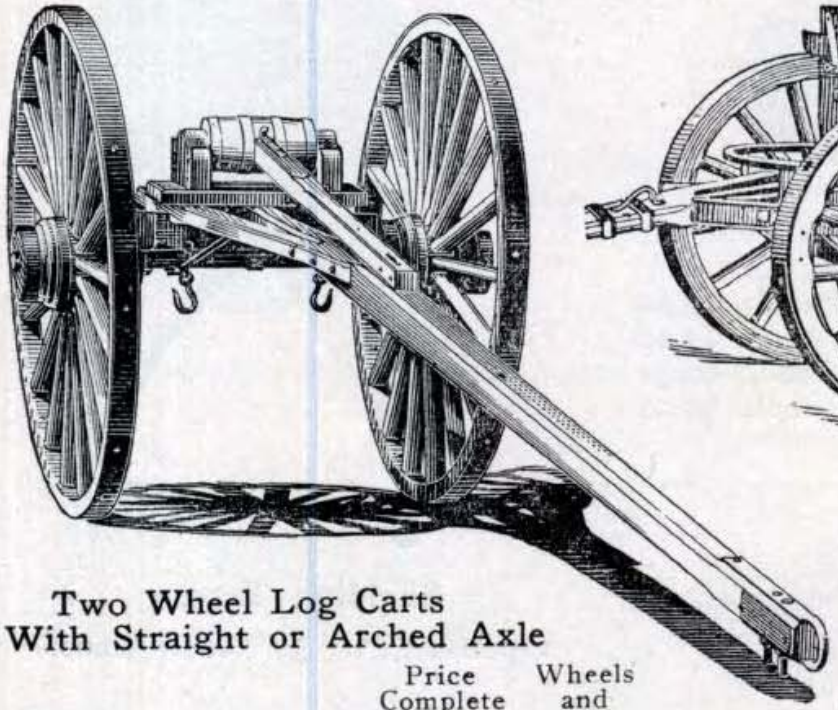


Lumber Rules, $1.50, net.

Log Rules, $1.50, net.

Log Carts and Wagons

Of any size or capacity, or we can furnish wheels and axles only if desired.

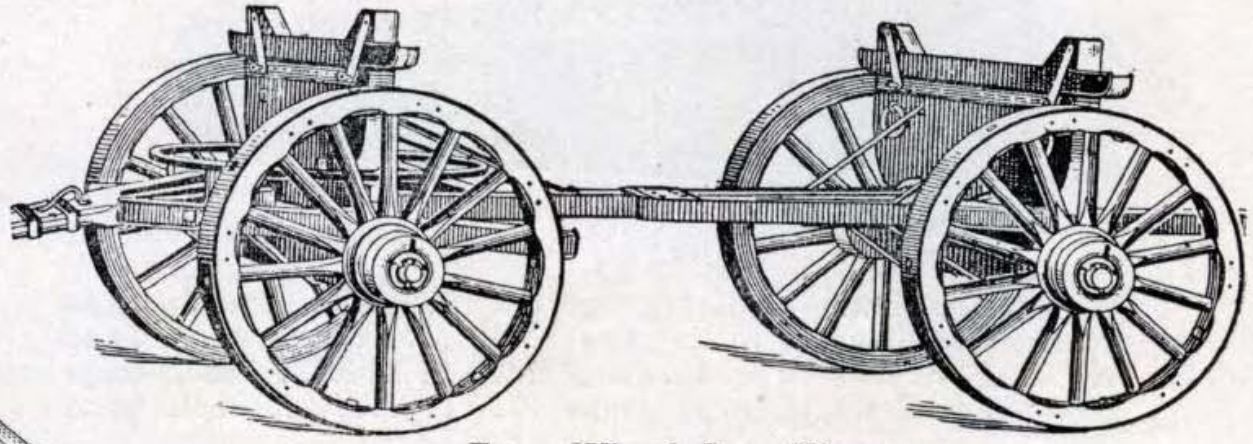


Two Wheel Log Carts
With Straight or Arched Axle

Size Wheel	Tire	Axle	Price Complete as Shown	Wheels and Axles Only
5½′	3″x½″	2½″	$ 95.00	$ 55.00
6′	3″x½″	2½″	100.00	60.00
5½′	4″x½″	2½″	105.00	65.00
6′	4″x½″	2½″	110.00	70.00
5½′	5″x½″	2½″	140.00	95.00
6′	5″x½″	2½″	150.00	105.00
7′	5″x½″	2½″	175.00	125.00

If 2¾″ axles are wanted add **$10.00** to above.

If 3″ axles are wanted add **$18.00** to above.



Four Wheel Log Wagons

Best and lightest running **Log Wagons** made, built throughout of the best seasoned **White Oak** and **Hickory.** Ironing heavy and substantial. Full circle fifth wheel, either stiff or drop tongue.

No	Skein	Tire	Wheels	Weight	Capacity	Price
2	3¼″x10″	3″x½″	38″—40″	1200	4000 lbs.	$120.00
5	3½″x11″	3″x½″	38″—40″	1400	5000 lbs.	125.00
7	3¾″x12″	3″x½″	38″—40″	1500	6000 lbs.	135.00
9	4 ″x12″	4″x½″	38″—40″	1700	8000 lbs.	145.00
10	4½″x12″	4″x½″	38″—40″	1800	10000 lbs.	155.00

Price includes whiffle trees, evener, stay chains, neck yoke or tongue chain.

Add for each inch in width of tire **$10.00.**

If brake is wanted add **$10.00.**

Code Word to Designate This Catalog, "Oten"

Telegraph Code: Cable Address, "Amsawmilco," New York. Codes Used: Western Union; Lieber's and A B. C 4th Edition.

Baler.....Baling Press, Steam.
Bandy.....Band Saw, 27".
Bandit.....Band Saw, 36".
Belate.....Belt Tightener.
Belfry.....Belt Feed, Hercules.
Bolty.....Bolter, Hand Feed.
Bolting.....Bolter, Knee Feed.
Bolster.....Bolter, Power Feed.
Bolder.....Bolter and Slat Saw, Self Feed, No. 1.
Boldest.....Bolter and Slat Saw Self Feed No. 2.
Boring.....Borer, Post.
Cords.....Cord Wood Saw, No. 3.
Corded.....Cord Wood Saw, No. 4.
Cording.....Cord Wood Saw, No. 5.
Cordial.....Cord Wood Saw, No. 6.
Corduroy.....Cord Wood Saw Mandrel.
Dogma.....Dogs, Drop.
Dogmatic.....Dogs, Ajax, Double Tooth.
Dogit.....Dogs, Giant No. 1.
Dogged.....Dogs, Giant No. 2.
Dogging.....Dogs, Knight No. ——.
Dragon.....Drag Saw, Champion.
Eddy.....Edger, Pony, 2 Saw.
Eddies.....Edger, Pony, 3 Saw.
Edify.....Edger, Junior, 2 Saw.
Edified.....Edger, Junior, 3 Saw.
Edifying.....Edger, Senior, 3 Saw.
Edifice.....Edger, Senior, 4 Saw.
Edible.....With Single Pressure Roll.
Edit.....With Double Pressure Roll.
Edited.....With Inserted Tooth Saws.
Editing.....With Solid Saws.
Edging.....Edger, Single Saw, Hand.
Grinder.....Emery Grinding Machine.
Excelsior.....Excelsior Machine.
Excel.....Excelsior Machine, Iron Parts only.
Extract.....Extra feet of track steel.
Extracting.....Extra feet of track way timbers.
Varied.....Friction Feed No. 1.
Variance.....Friction Feed No. 2.
Variety.....Friction Feed No. 3.
Various.....Friction Feed No. 4.
Niger.....Friction Nigger.
Gauger.....Gauge Roll, No. 1.
Gauging.....Gauge Roll, No. 2.
Headless.....Head-block, 1 Additional.
Headlong.....Head-block, 2 Additional.
Latch.....Lathe, Wood Turning, 12".
Latchet.....Lathe, Wood Turning, 16".
Latching.....Lathe, Wood Turning, 20".
Lather.....Lath Mill, Gang.
Lathered.....Lath Mill and Bolter Combined.
Lathering.....Latn Binder and Trimmer.
Livid.....Live Roll, light pattern, size ——.
Livery.....Live Rolls, No. 1.
Lively.....Live Rolls, No. 2.
Logie.....Log Beam Carriage.
Loger.....Log Haul-up, No. 1.
Logy.....Log Haul-up, No. 2.
Logging.....Log Turner or Canter, No. 1.
Logos.....Log Turner or Canter, No. 2.
Logical.....Log Turner, Edwards No. 1.
Logician.....Log Turner, Edwards, No. 2.
Manila.....Manila Rope Drive.
Mandate.....Mandrel Extension, —— feet of.
Militant.....Mill Saw, Inserted Tooth, —— inches, —— Hand.
Military.....Mill Saw, Solid Tooth, —— inches, —— Hand.
Parable.....Parallel Bar or False Knee.

Plant.....Planer, "Jewel," 16".
Planted.....Planer, "Jewel," 20".
Planting.....Planer and Matcher, "Triumph," 20".
Plantain.....Planer and Matcher, "Triumph," 24".
Planet.....Top Rolls only driven.
Planetary.....Top and Bottom Rolls driven.
Planish.....Planer, "Pony" Surfacer, 20".
Planished.....Planer, "Pony" Surfacer, 24".
Racket.....Rack and Pinion Drive.
Shiny.....Rotary Shingle Jointer.
Shinier.....Rotary Shingle Jointer, Irons only.
Sawn.....Saw Bench, Combination.
Sawer.....Saw Bench, Combination with Borer.
Sawly.....Saw Bench, Mitre.
Sawit.....Saw Bench, Mitre with Borer.
Sawax.....Saw Bench, "Precision," Iron Frame.
Sawup.....Saw, Cut-off, New Model.
Sawt.....Saw, Cut-off, **"Perf**ection."
Sawcc.....Saw, Swing Cut-off, Style "A."
Sawbo.....Saw, Swing Cut-off, Style "B."
Sawga.....Saw, Swing Cut-off, Style "C."
Sawtry.....Saw, Swing Cut-off, Wood Frame.
Sawfly.....Saw, Swing Cut-off, Irons only.
Jumper.....Saw, Steam Jump, Wood Frame.
Jumping.....Saw, Steam Jump, Iron Frame.
Sawlike.....Saw Guide No. 1.
Sawbill.....Saw Guide No. 2.
Sawpit.....Saw Guide No. 3.
Sawdust.....Saw Dust Conveyor No. ——.
Sawbuck.....Saw Mandrel Style "A."
Sawhorse.....Saw Mandrel Style "B."
Sawhorn.....Saw Mandrel Style "C."
Sawlog.....Saw Mandrel Style "D."
Mandrake.....Saw Mill Mandrel —— inches.
Ash.....Saw Mill, No. 1, Variable Feed.
Beech.....Saw Mill, No. 2, Variable Feed.
Birch.....Saw Mill, No. 2½ Variable Feed.
Cherry.....Saw Mill, No. 3 Variable Feed.
Dogwood.....Saw Mill, No. 4 Variable Feed.
Fir.....Saw Mill, No. 6.
Gum.....Saw Mill, No. 7.
Hemlock.....Saw Mill, No. 7½.
Hickory.....Saw Mill, No. 8.
Shortly.....Saw Mill, Short Log, No. 1.
Shortness.....Saw Mill, Short Log, No. 2.
Ashes.....Saw Mill, No. 1, Mounted.
Ashto.....Saw Mill, No. 2, Mounted.
Setter.....Set Works, "Ideal," No. 1.
Settle.....Set Works, "Ideal," No. 2.
Seton.....Set Works, "Double Acting," No. 1.
Setem.....Set Works, "Double Acting," No. 2.
Shing.....Shingle Machine, "Up-to-Date."
Shindy.....Shingle Machine, "Up-to-Date," no Edger.
Shinto.....Shingle Machine, "Climax."
Shiner.....Shingle Machine, "Royal."
Shining.....Shingle Press.
Stable.....Stave Bolt Equalizer.
Traction.....Track V. Rolled Steel, "A."
Tractile.....Track V. Rolled Steel, "B."
Tractable.....Track T. Rail "C" —— lbs.
Tracking.....Track, Extra Heavy, Style "D."
Tractate.....Track Way Timbers.
Trackless.....Track Scrapers.
Trimo.....Trimmer, Lumber, 6 to 16 feet.
Trimest.....Trimmer, Lumber, 6 to 18 feet.
Triming.....Trimmer, Lumber, 8 to 20 feet.
Trimeter.....Trimmer, Lumber, 8 to 24 feet.
Topaz.....Top Saw Rig (3, 4 or 6).
Topsy.....Top Saw Rig (7, 7½ or 8).
Truckage.....Trucks, Carriage No. ——.
Truce.....Trucks, Lumber, 8 inch.
Truant.....Trucks, Lumber, 10 inch.
Trudge.....Trucks, Lumber, 12 inch.
Trump.....Trucks, Lumber, 16 inch.
Turban.....Turbine Water Wheel.
Wiry.....Wire Cable Drive.
Wirer.....Wire Cable Drive, Style "A."
Wiring.....Wire Cable Drive, Style "B."
Splits.....Wood Splitter, Single.
Splitting.....Wood Splitter, Double.

Orders and Questions

Sabal.....Ship as soon as possible by freight.
Saber.....Ship as soon as possible by express.
Sable.....Enter our order for ———. Telegraph when shipment can be made.
Sabot.....Prepare for shipment, particulars by mail.
Sabix.....Ship by freight and draw against bill of lading.
Sabry.....Please route our shipment via ——.
Sabdo.....Telegraph if you cannot ship in time named.
Sachem.....Await further instructions before shipping.
Sachy.....Ship what you have ready and let the balance follow as soon as possible.
Sacked.....How soon can you ship?
Sacral.....When did you ship?
Sacred.....When will you ship?
Sacrum.....Can you ship at once?
Sadden.....How soon can you make up carload?
Sadly.....How much do you lack for carload?
Safely.....How did you ship our order?
Saffron.....Order depends on shipment in —— days. Can you meet it?
Sage.....Wnat orders have you entered for us that have not been shipped?
Sagely.....What is freight rate from Hackettstown to ———?

Replies

Sagacious.....We have shipped.
Sagacity.....We can ship ———.
Sagum.....We cannot ship ———.
Sailer.....We will ship ———.
Saint.....We can ship immediately.
Sainted.....We can ship in two days.
Saintly.....We can ship in three days.
Salam.....We can ship in four days.
Salads.....We can ship in ten days.
Salary.....We can ship in one week.
Salient.....We can ship in two weeks.
Saline.....We can ship in three weeks.
Saliva.....We can ship in four weeks.
Salivate.....We can ship in five weeks.
Sallow.....Order received; expect to ship ———.
Salmon.....Shipment went forward on ———.
Salon.....Have ready for shipment. Send instructions.
Salty.....Shipment was made via ———.
Saltant.....Can prepare carload in ——— days.
Saltern.....Need about ——— lbs. to complete car.
Saltire.....We have your unfilled orders for ———.
Salute.....Cannot guarantee shipment.
Salvage.....Guarantee shipment not later than ———.
Salve.....Shipment has been delayed on account of ———. Letter follows.
Salvia.....Shipment is being hurried as much as possible.
Sampan.....May be able to make shipment sooner but do not promise to do so.
Sampler.....Shall we ship?
Samson.....How shall we ship?
Sandal.....Have you any preference as to routing?
Sandy.....Shall we ship what we have ready?
Sandwich.....Referring to your letter of ———.
Sanity.....Referring to your telegram of ———.
Sapling.....Referring to your order of ——— or No. ———.
Sapor.....Referring to our letter of ———.
Sapid.....Referring to our Order of ——— or No. ———.
Sapient.....Rate of freight car load shipment per 100 lbs. is ———.
Sapless.....Rate of freight less than car load shipment per 100 lbs. is ———.

Testimonials—Saw Mills

About one year ago I purchased one of your No. 1 saw mills. It has given complete satisfaction. Although the mill was bought for my own use and not as a commercial venture, I have sold considerable lumber from it, and found that it paid me well. Practically the first run was on a lot of about 30,000 feet of chestnut framing, mostly 4x12 and larger. This bill was for an addition on the Vanderbilt home at Great River, L. I.;—"Idle Hour." The contractor stated to me that it was as well and accurately cut as any material he had ever used. Everything about the mill worked smoothly from the start, and the set works, feed and other parts are well made and work with precision.

JOHN R. CRANDALL,
Hauppauge, Long Island, N. Y.

My No. 1 American Saw Mill is just the thing and runs fine and easy. I am using an engine with a 6½x10 cylinder and 40 inch wheel, and can do good sawing with 75 pounds of steam. My saw is 44 inch and have run it through a log that the saw would not reach through, but did not check the engine much.

WM. O. BLOOD, Leota, Mo.

The Portable Engine of 17 H. P. runs the American Saw Mill I got from you with ease, and the saw mill itself is transported with equal ease. Two days are sufficient to move my mill four or five miles and set it up again, ready for sawing. I could not too strongly advise those who have need of a saw mill to procure one like it.

WILLIAM DAOUST, Monteville, Quebec.

In regard to the No. 2 Saw Mill we bought of you, we never had any trouble to cut first-class lumber. We have been running it with a 6 H. P. engine with the very best results; we cut from 3,000 to 4,000 feet of good lumber per day, and will gladly recommend it to any one.

A. H. GRIMES, Turin, Mich.

I am using your No. 3 Saw Mill with a 15 H. P. engine and average 8,000 feet per day. I am very much pleased with it.

W. H. GREENWOOD, Bennington, Va.

I bought one of your No. 2 Saw Mills and 9 H. P. Gasoline Engines. I knew nothing about such machinery and I bought on your recommendation.

The mill with this power will easily cut from three to four thousand feet in ten hours, and I have cut a lot of seasoned white oak and hickory. The mill works fine, and will do all you claim for it with this power. I would advise any one wanting a portable mill to get an American.

DAVID STERNER, Allentown, Pa.

Your letter received, asking how I like the No. 1 American Saw Mill. Will say that it is all right. It will do all you claim. I can cut from 5,000 to 6,000 feet of lumber a day with a 7x12 portable engine. I am satisfied with it.

R. B. HENDRICK, Tuskahoma, I. T.

I purchased one of your No. 2 Mills and use it almost constantly, and am running it with a 16 H. P. engine, and also run a slab saw and blower. Am cutting from six to eight thousand feet of pine lumber a day, have sawed 500 feet in 20 minutes. I have not seen anything that could beat it.

ALBERT CLARK, Winchester, N. H.

The American Saw Mill that I bought of you is second to none for light power. I have cut logs from 6 feet to 36 feet in length and from 4 inches up to 5 feet in diameter. It is quick to set and to take up. I think it is the handiest mill on the market.

JOSEPH NEWELL, St. William, Ont.

I like the American Saw Mill all right. I have 14 H. P. gasoline engine, 54 inch inserted tooth saw, cut logs up to 26 feet long and 30 inches in diameter and from 6,000 to 7,000 feet per day.

H. H. BACHMAN, Holstein, Iowa.

I am very well pleased with the No. 1 American Saw Mill. I have about 35 H. P. water power, use 54 inch saw and cut all sizes of logs, about 8,000 feet per day.

L. A. CROSS, Cisco, Cal.

Testimonials

Answering yours of recent date: Beg to say that the No. 6 American Saw Mill is all right in every way. We consider it a good mill. We have a 75 H. P. Pelton water wheel. We are sawing logs from 10 feet to 40 feet in length and from 2 feet to 4 feet thick, cutting about 25,000 feet per day with five men.
LATOUCHE COPPER MINING CO., LaTouche, Alaska.

I am well pleased with the No. 2 American Saw Mill. It could not be better. Have 15 H. P. gasoline engine, 54 inch saw and can cut 3,500 feet of lumber per day.
FRANK CURTIS, Livingston, Mont.

EDGERS

I am glad to say that the American 3-Saw Junior Gang Edger has given entire satisfaction, and would not be without it for twice the cost. It has increased the capacity of my mill at least 33 1-3 per cent., and the saving of lumber will pay for the machine in four months' work. I can fully recommend the machine to any one.
C. H. DEAN, Queen Anne, Md.

The American Junior Edger gives perfect satisfaction. HAMMOND LUMBER CO., Willowemoc, N. Y.

The American Junior Gang Edger is at work and giving satisfaction. W. P. TAYLOR, Winston, N. C.

The American Junior Gang Edger is not only giving satisfaction but has more than paid for itself in the three months we have had it, in the saving of lumber and time.
WALLACE CATTLE GUARD MFG. CO., Monroe, Ark.

The American Junior Gang Edger has been giving perfect satisfaction; am willing to recommend it anywhere. C. B. NIBLETT, Handsomes, Va.

TRIMMERS

Your letter of the 8th received. Your trimmer is all right. Can handle from 30 to 35 M. feet per day.
BARRET & MAGETTE, Spring Hope, N. C.

The trimmer we had of you last spring has been in operation for about two months and we have found the same to be very satisfactory. The one ordered last week, which you shipped on receipt of telegram, is for another mill, and we may need a third one soon. As far as we know, it is the best machine on the market.
DEERFIELD RIVER CO., Wilmington, Vt.

SHINGLE MACHINES

In regard to the American Up-to-Date Shingle Mill would say that I like the mill very much.
H. B. MARTIN, St. Albans, Vt.

The American Up-to-Date Shingle Mill is all that one can wish in that line. Have cut as many as 7,000 shingles per day. If it was run to its full capacity it would cut 10,000. I am well pleased with its work.
JNO. D. GREAVES, Burkes Garden, Va.

In regard to the American Up-to-Date Shingle Machine, will say we gave the machine a good test in both pine and hemlock, and it did perfect work, and was all you claimed it to be.
W. M. BURHAUS, Kingston, N. Y.

LATH MACHINES

I am perfectly satisfied with your American Lath Mill. We have cut at a rate of 40,000 per day with three saws.
S. B. SNOWMAN & SON, South Penobscot, Me.

Your letter received and contents noted. In regard to the American Lath Mill bought of the Banks Supply Co., will say we have tested the mill and it is all right.
WM. AILLS, Huntington, W. Va.

I am well pleased with your American Lath Machine. and think that it is the best machine for the money there is on the market.
L. G. HIGHSMITH, Savannah, Ga.

The Six-Saw American Lath Machine arrived in good order. We have given it a fair trial and it has proven to be a hustler, for it will cut at least one-third more lath than we expected. At the rate we run it we can cut 4,000 lath per hour. We are well pleased with the machine.
BOZARTH LUMBER CO., Egg Harbor City, N. J.

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A Complete Telegraph Code will be found on the last Pages of this Catalog.