

AMERICAN "ECONOMY" SAW MILLS

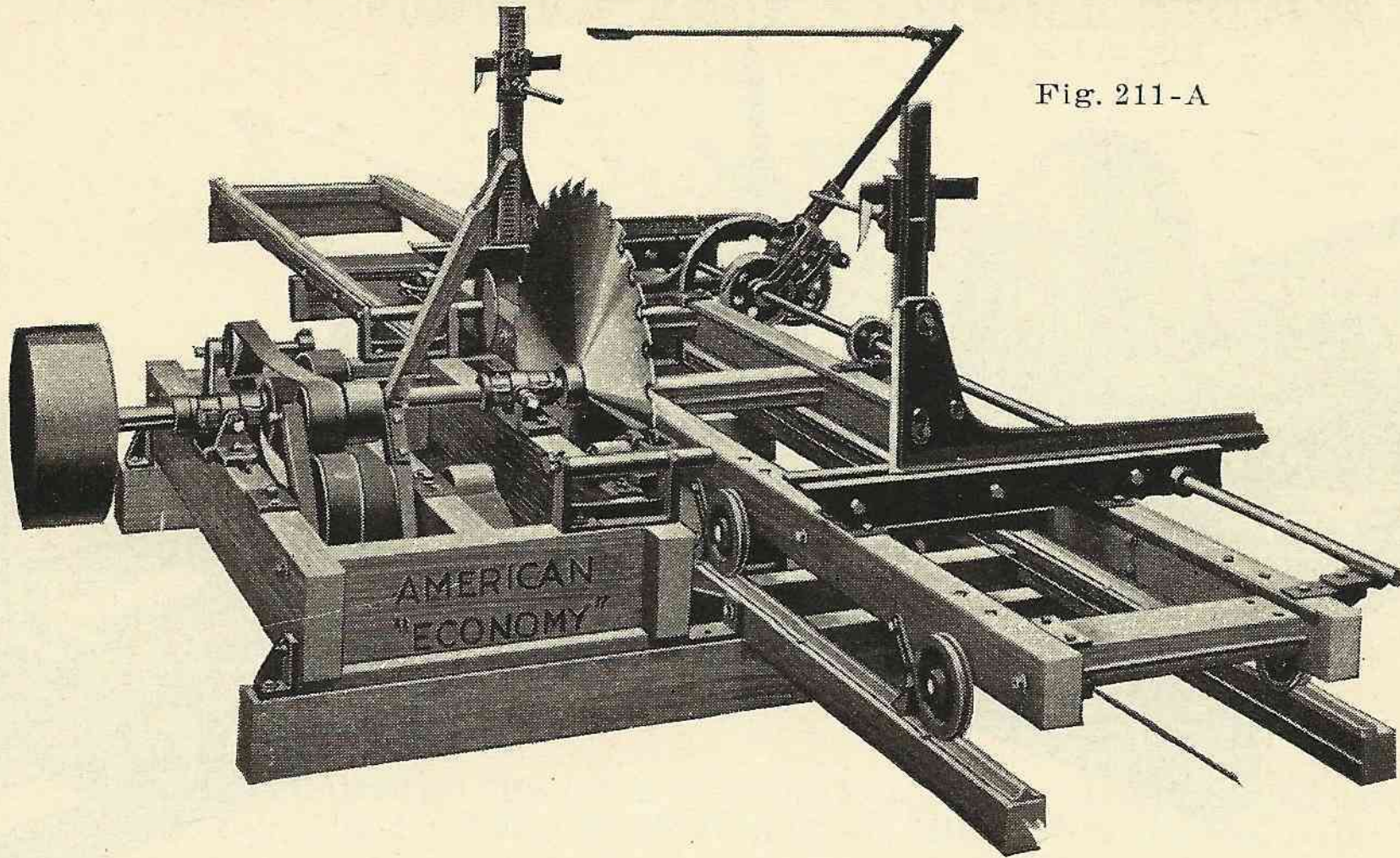


Fig. 211-A

High grade standard variable belt feed mill, embodying all the essential features which have made American Saw Mills famous throughout the world.

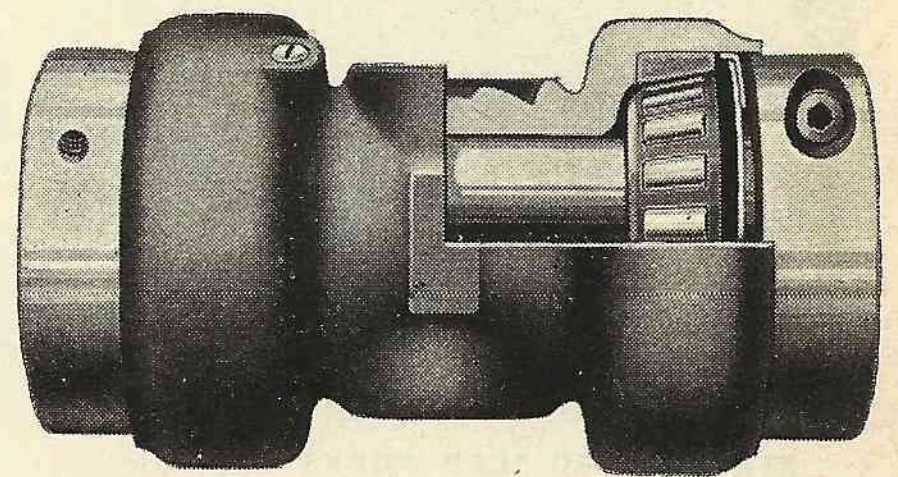
Skilful workmen, modern inspection methods and the best materials combine to assure the purchaser a heavy, reliable saw mill, which has all the features necessary for the rapid production of first grade lumber.

Capacity. The headblocks open 34 inches from the saw, and logs up to a maximum of approximately 36 inches diameter and 18 feet long can be accommodated. Saws up to 56 inches in diameter can be carried. Output capacity 3,000 to 8,000 feet and up per day, depending upon the power available, etc. Power recommended up to 25 H.P. and up (actual brake-test H.P.).

The feed is the powerful improved "Heacock" automatic feed which responds instantly to pressure on the lever and permits feeding the log into the saw at any speed from a very slow motion for light power, up to a maximum of 4 1/8-inch per revolution of the saw—or about 120 feet per minute with a saw running at small speed (350 R.P.M.). The gig-back is exceptionally fast—over 300 feet per minute.

The Mandrel is of high grade alloy steel, accurately ground and finished. Mandrel pulley 20 by 8 inches (unless otherwise specified). Mandrel bearings furnished as standard are of the best grade of steel, carefully scraped and accurately fitted, but the finest heavy precision type roller bearings can be supplied at slight extra cost. We recommend roller bearings wherever possible, as the bearings of a saw mill must withstand severe punishment when the log is fed into the saw. The Timken heavy duty roller bearings have been used by long service in actual practice to be very satisfactory for heavy work.

Fig. 211-B



HEAVY DUTY ROLLER MANDREL BEARING

SPECIFICATIONS

Log husk frame.....	7'x2'10"	Headblocks open from saw.....	Inches	34
Frame timbers.....	Inches 3 1/2 x 9 1/2	Number of trucks (roller bearings).....	Inches	3
Belt width.....	Inches 3	Diameter of wheels.....	Inches	7
Maximum feed per revolution of saw.....	Inches 4 1/8	Diameter of axles.....	Inches	1 1/4
Gig back per revolution of saw.....	Inches 10 7/8	Set shaft.....	14' x 1 7/16"	
Mandrel.....	Inches 2 3/16 x 51	Length of carriage travel.....	Feet	28
Maximum diameter of saw.....	Inches 56	Length of track.....	Feet	42
Mandrel pulley size.....	Inches 20 x 8	Type of track.....	"V" and flat	
Carriage.....	14' x 26"	Diameter of largest log—approximately.....	Inches	36
Log timbers.....	Inches 3 1/2 x 5 1/2	Capacity, in board feet per day—		
Standard number of headblocks.....	2	approximately.....	3,000 to 8,000	
Standard number of dogs.....	2	Power recommended (brake test).....	H.P. 15 to 25	

APPROXIMATE SHIPPING WEIGHT, POUNDS

Standard Saw Mill, complete.....	2500	Track Steel only, Flat and V (1 foot of each).....	4
Standard Saw Mill, complete with log beam carriage.....	3100	Head-Block and Dog.....	145
Frame, complete.....	1000	Head-Block without Dog.....	100
Standard Carriage, complete (without Cable Drive).....	1350	Power foot receder.....	265
Standard extra carriage section, complete.....	290	Parallel Bar.....	20
Standard beam carriage, complete without cable drive.....	1950	Extension Mandrel, per foot.....	13
Standard Work for Ways (way timbers).....	500	Outboard Bearing.....	25

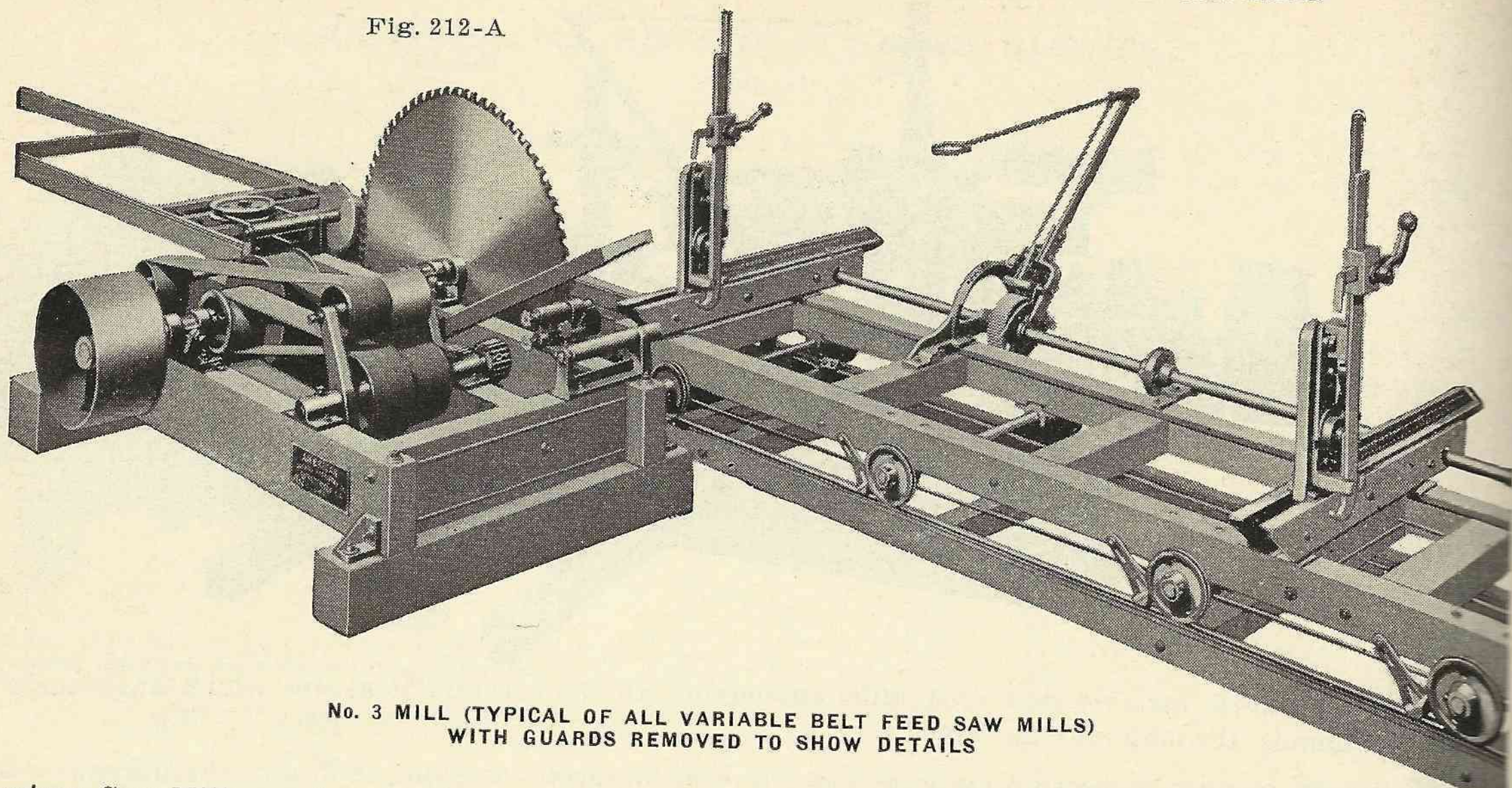
SHIPPING WEIGHTS OF MILL SAWS, POUNDS

Wt.,	Size,	Wt.,	Size,	Wt.,	Size,	Wt.,	Size,	Wt.,	Size,	Wt.,	Size,
Lbs.	Ins.	Lbs.	Ins.	Lbs.	Ins.	Lbs.	Ins.	Lbs.	Ins.	Lbs.	Ins.
75	42	100	46	120	50	140	54	170	60	210	
90	44	110	48	130	52	150	56	190	72	275	

Prices and complete catalogs on request.

AMERICAN VARIABLE BELT FEED SAW MILLS

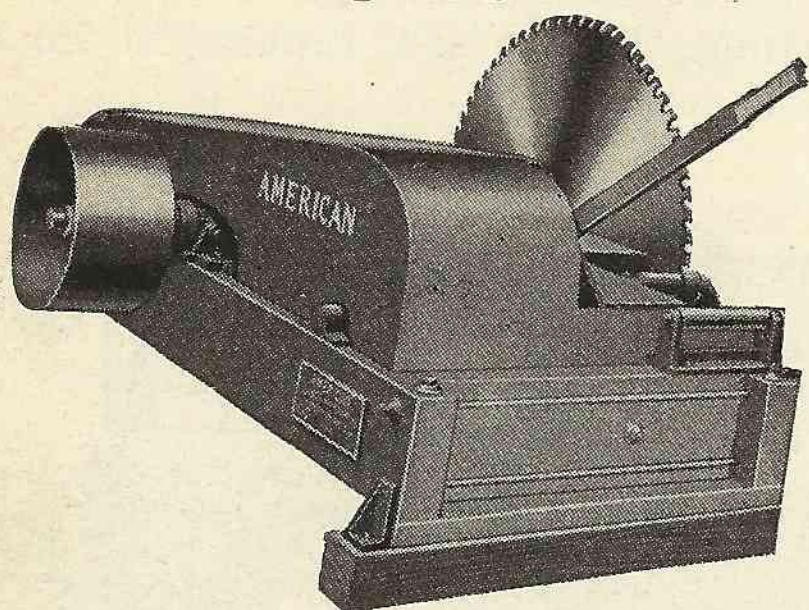
Fig. 212-A



No. 3 MILL (TYPICAL OF ALL VARIABLE BELT FEED SAW MILLS) WITH GUARDS REMOVED TO SHOW DETAILS

American Saw Mills are famous throughout the world. They are the result of nearly half a century of experience with the saw mill user and his requirements. They have been constantly improved to meet changing conditions and they are up-to-date, fast, accurate and dependable. Their modern streamlined appearance is pleasing to the eye. American saw mills are strong, well built, and able to withstand the hard service which a machine of this type is called upon to endure. They are manufactured by experienced skilled mechanics from the best obtainable materials, in a modern plant.

Fig. 212-B



STREAMLINED FEED WORKS HOUSING

The Improved Variable Belt Feed is powerful and sensitive, responding instantly to pressure on the feed lever.

The capacities of the four standard variable belt feed mills are as follows:

No. 1. Headblocks open 38 inches from saw—output capacity 4 to 8,000 feet and up per day, depending upon the power available, size and kind of logs, etc. Power suggested at least 15 to 30 H.P. (actual brake test H.P.).

No. 2. Headblocks open 38 inches from saw—output capacity 5 to 10,000 feet and up per day, depending upon the power available, etc. Power suggested at least 20 to 50 H.P.

No. 3. Headblocks open 44 inches from saw—output capacity 8 to 15,000 feet and up per day, depending upon the power available. Power suggested at least 25 to 60 H.P.

No. 4. A heavy portable mill. Headblocks open 48 inches from saw—output capacity 10,000 to 20,000 feet and up per day, depending upon the power available, etc. Power suggested at least 40 to 75 H.P.

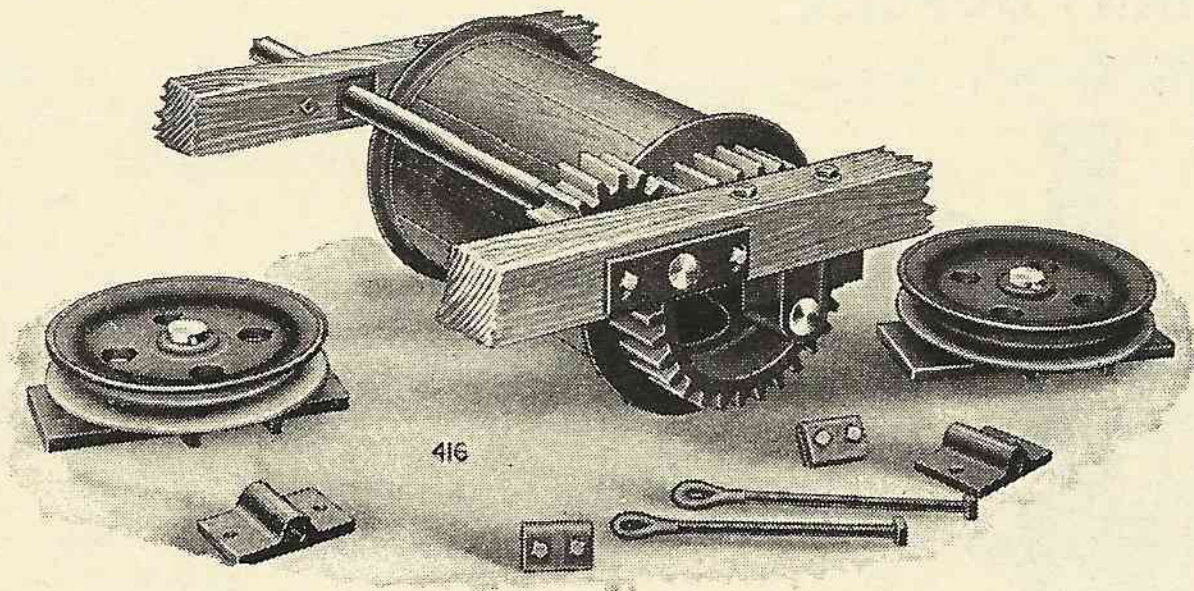
SPECIFICATIONS

No.	1	2	3	4
Husk Frame...	Length and Width.....Feet 7x3	8x3 1/2	8 1/2 x4	8 1/2 x4
	Size of Timbers.....Inches 3 1/2 x9 1/2	3 1/2 x9 1/2	4 1/2 x11 1/2	4 1/2 x11 1/2
Mandrel.....	Diameter....." 2 3/16	2 7/16	2 7/16	2 7/16
	Length....." 58	66	72	72
	Pulley Size Standard....." 20x8	20x10	20x12	24x12
	Pulley Size Maximum....." 24x8	24x10	24x12	30x12
Saw.....	Standard Hole Size....." 2	2	2	2
	Maximum Diameter....." 56	60	60	60
	Maximum Feed Per R.P.M....." 4 1/4	4 3/4	6	6
Carriage.....	Lgth. in Ft. & Width in Inches 16x30	20x30	20x36	24x36
	Size of Timbers.....Inches 3 1/2 x5 1/2	3 1/2 x5 1/2	4 1/2 x5 1/2	5 1/2 x5 1/2
	Number of Trucks....." 4	6	6	6
	Diameter Wheels.....Inches 7	7	8	8
	Diameter Axles....." 1 1/4	1 1/4	1 1/2	1 1/2
Length Travel.....	Feet 34	38	38	38
Length of Track and Ways.....	" 48	56	56	56
Maximum Gig Back.....	Inches 11 1/4	11 1/2	14	14
Set Shaft—Length in Feet & Diameter in Inches	16x1 7/16	20x1 11/16	20x1 11/16	20x1 11/16
Feed Belt—Width.....	Inches 4	4	6	6
Head-Blocks Open from Saw.....	" 38	38	44	44
Number of Head-Blocks.....	2	2	2	2
Number of Dogs.....	2	2	2	2
Horse Power Required, Minimum.....	15 to 30	20 to 50	25 to 60	40 to 75
Capacity in Board Feet Per Day.....	4 to 8M	5 to 10M	8 to 15M	10 to 20M

Prices on application. Write for catalogs on other types and sizes.

WIRE CABLE SAWMILL DRIVES

Fig. 213-A



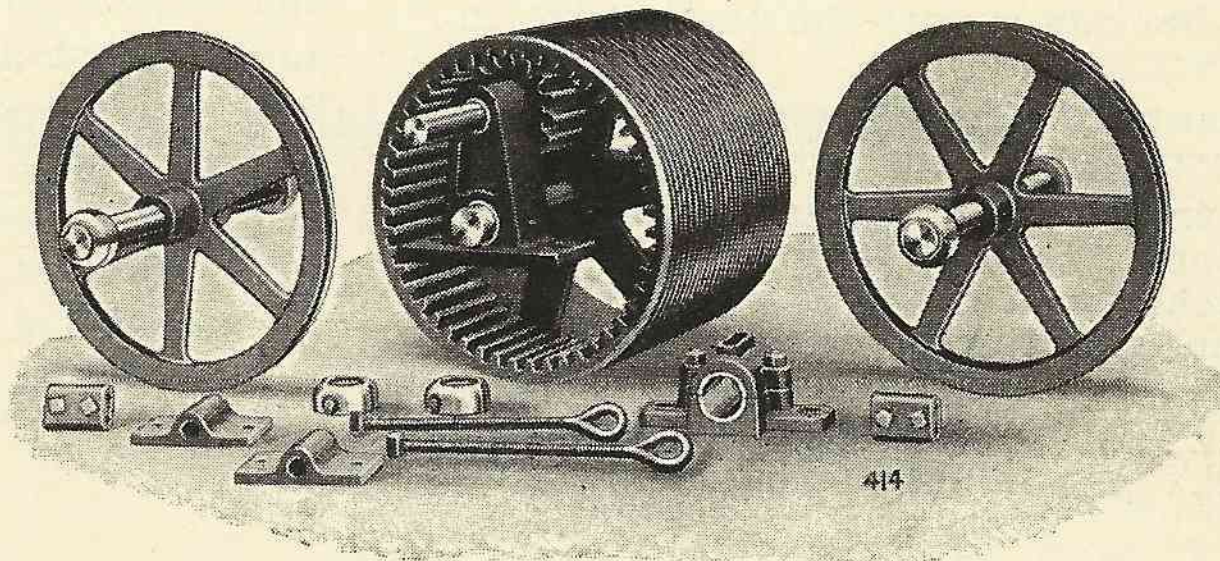
STYLE B WITH EXTERNAL GEAR, PLAIN DRUM AND HORIZONTAL SHEAVES

This style is fitted to the track way timbers and is recommended and regularly furnished with Nos. 1, 2, 3 and 4 Variable Friction Feed Mills, when ordered with "Wire Cable Drive."

Size	Inches	11	14
Dimensions of drum.....	"	11x14	14x20
Suitable for Mills Nos.....		1 and 2	3 and 4
Diameter of gear.....	Inches	10	12
Diameter of pinion.....	"	4	6
Diameter of sheaves.....	"	10	12
Weight complete without cable.....	Pounds	175	300
Size of wire cable recommended.....	Inch	3/8	1/2

Sheaves should be placed not less than 20 feet apart. The travel of the carriage is twice the distance between sheaves plus the length of the carriage. To find length of rope required—to the length of carriage add twice the distance between sheaves and five times the circumference of the drum (15 times the diameter), also add about five feet for connections.

Fig. 213-B



STYLE A WITH INTERNAL GEAR, GROOVED DRUM AND VERTICAL SHEAVES

The sheaves are intended to revolve on the axles and have some lateral play, hence boxes are not required.

We recommend Wire Cable Drives for all saw mills. They impart a powerful but quiet and easy motion to the carriage and can be stopped and reversed quickly. A shorter carriage can also be used than with rack and pinion drive, and timber much longer than the carriage can be cut. By having long track, the carriage can be run out any desired distance to receive logs and deliver lumber.

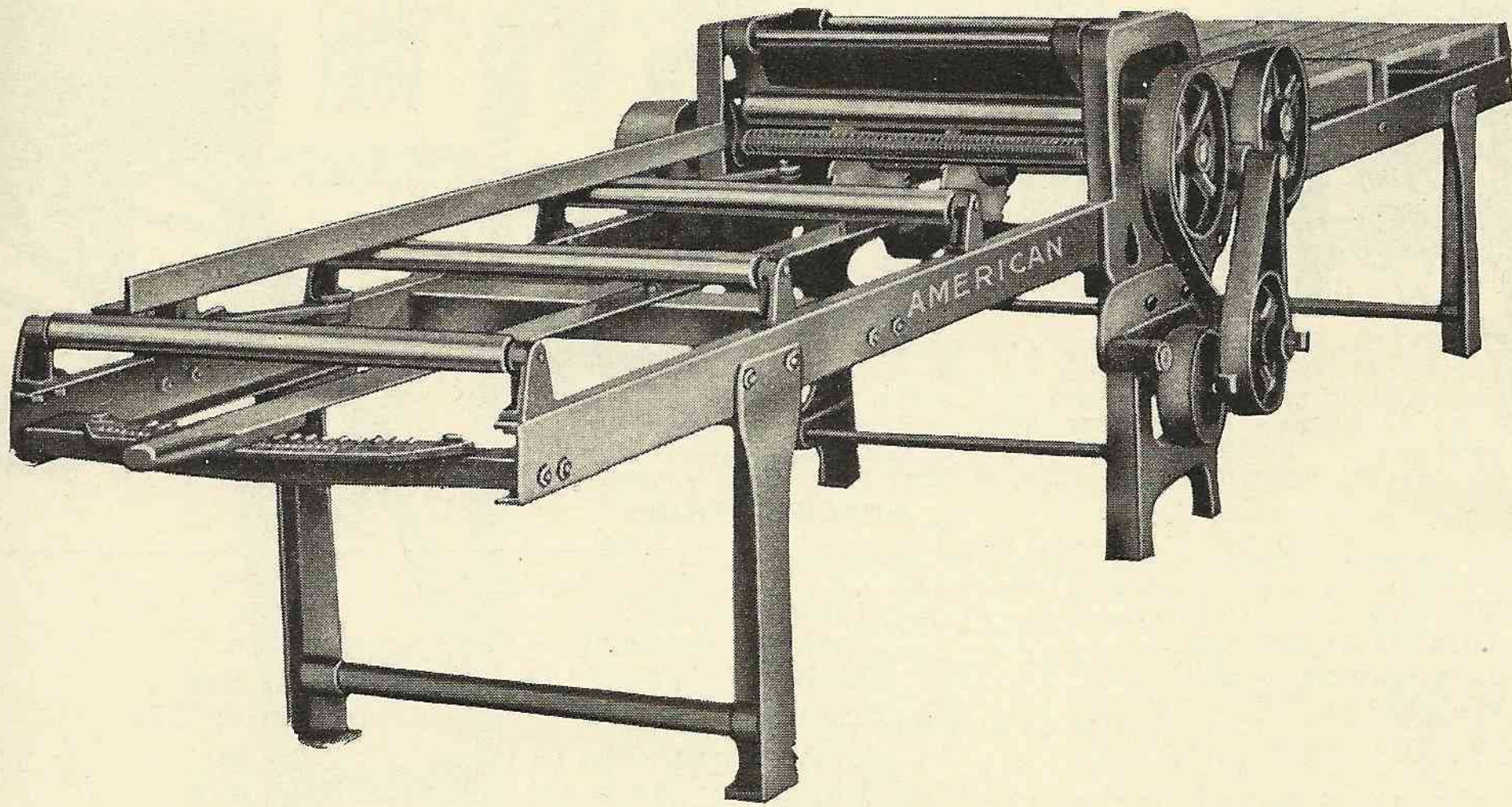
Size	Inches	12	18	24	30
Dimensions of drum.....	"	12x11	18x14	24x16	30x16
Suitable for mills Nos.....		1 and 2	3 and 4	.....	.....
Diameter of gear.....	Inches	11	16	21	27
Diameter of pinion.....	"	4	5	7	7
Diameter of sheaves.....	"	12	18	24	30
Weight complete without cable.....	Pounds	150	350	500	1,600
Size of wire cable recommended.....	Inch	3/8	1/2	5/8	3/4

NOTE—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 it 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.

Special catalogue and prices on above equipment on request.

AMERICAN TRU-FEED EDGERS

Fig. 217-A



No. 1 STANDARD GANG EDGER

American "Tru-Feed" Edgers are essential for efficient saw mill operation. Savings in the cost of saw mill operation are of from 25% to 50%, or correspondingly increased production, are readily obtainable through the use of an edger instead of edging on the saw mill. Properly edged, straight, accurate lumber commands the highest price.

The best materials are used throughout and they are made by workmen who have had years of experience. Designed to cut straight, accurate lumber day in and day out, with the minimum consumption of power and upkeep. Included in the line are not only the finest and most modern edgers, but also several inexpensive models for the smaller operator. Among our five different edgers, ranging from 24- to 46-inch capacity, you will find a machine exactly suited to your individual requirements.

The drive is the first positive edger drive which will accurately feed boards at any desired definite speed. The main drive belt runs from the mandrel feed pulley over the large pulley of the main countershaft. The secondary drive belt runs from the small pulley of the countershaft over the swinging idle pulley to the feed rollers.

This arrangement is unique. The nuisance of loose, slipping belts and reduced feed efficiency is eliminated. The double pulley countershaft and the idler are each mounted on a swinging arm. The weight of these pulleys hanging on the belts keeps the belts in proper tension at all times.

SPECIFICATIONS

	Hand Edger	No. 1	Type or No. "Economy"	No. 2	No. 3
Width inside frame	Inches 24	28	33	33	46
Maximum thickness of stock, can be cut.....	" 4	4	4	4	4
Width between saws—two saw machine.....	"	2 to 16	2 to 23	2 to 23	.....
Width between saws—three saw machine.....	" .....	.....	19	19	34
Width between saws—four saw machine.....	" .....	.....	.....	.....	30
Standard feed; feet per minute.....	Hand Feed	60	80	80	80
Standard saw	Diameter, Inches 16	14	14	16	16
Feed rolls	" "	1 1/8	3	3	3 1/2
Hot pressure rolls.....	" "	2 7/16	2 3/16	3 1/2	3 1/2
Cool pressure rolls.....	" "	2 1/8	3 1/2	5 1/2	6
Mandrel	" " 1 7/16	1 1/8	1 1/8	1 1/8	2 1/8
Mandrel drive pulley	" " 6x6	6x8	8x8	10x8	10x10
Mandrel should run	R.P.M. 1500	2400	2400	2400	2400
Motor, H.P.	5 to 7 1/2	7 1/2 up	10 up	10 up	20 up
Feed belt supplied	Inches {	2x115	2x110	2x119 1/2	3x134
Side adjustment	" 17	2-4-6	2-4-6	2-4-6	2-4-6
Table width	" 24	31	33	33	46
Clear space required	4'6"x2'8"	16'x4'6"	18'6"x4'	18'6"x4'	22'x6'6"

SHIPPING WEIGHTS, POUNDS

Domestic—Belt drive, single roll.....	825	.....	1400	1425	.....
Export—Belt drive, single roll.....	1150	.....	1600	2055	.....
Domestic—Belt drive, double roll .....	.....	1300	1510	1700	2700
Export—Belt drive, double roll .....	.....	1550	1725	2280	3350
Kit for motor base.....	.....	114	120	120	125
Kit for 7 1/2 H.P. motor.....	175	175	.....	.....	.....
Kit for 10 H.P. motor .....	.....	255	255	.....	.....
Kit for 15 H.P. motor .....	.....	.....	325	325	.....
Kit for 20 H.P. motor .....	.....	.....	.....	380	380
Cubic contents, cubic feet.....	52	47	45	54	90

Prices on application.