

PROPERTY OF
A. A. McLAUGHLIN

DIRECT
MOTOR DRIVEN
BALL BEARING
WOOD WORKING
MACHINERY

“MAKE BETTER USE
OF THE PLANT YOU HAVE”

R. D. EAGLESFIELD *INC.*
INDIANAPOLIS, INDIANA

PIONEER

DIRECT MOTOR DRIVEN
BALL BEARING

BELTLESS

EAGLESFIELD

DIRECT MOTOR DRIVEN

“BELTLESS”

Type 1-

SWING SAW

FOR WOOD OR METAL

PROPERTY OF
A.A. MCLAUGHLIN

Manufactured Under Patents Dated May 3, 1924

MOTOR DIRECT ON ARBOR

Adjustable Hinge Bearing

Any Length Arm

Minimum Floor Space

Simple Depth Adjustment

Wired Ready To Run

Due to our construction for which Patent has just been allowed, no other machine combines the rigidity, speed, ease of operation and lack of fatigue to operator.

R. D. EAGLESFIELD, INC.

Indianapolis, Indiana

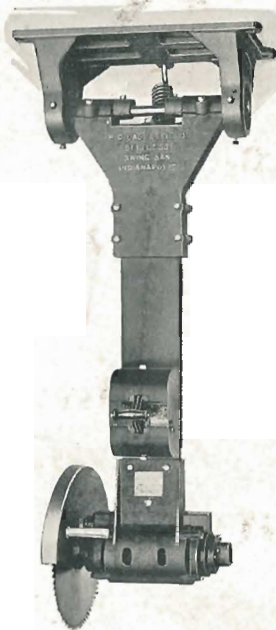
Factory: Brazil, Indiana

*“The way to Compete with
Eaglesfield Machines Is
to Install Them”*

PIONEER

DIRECT MOTOR DRIVEN BALL BEARING

BELTLESS



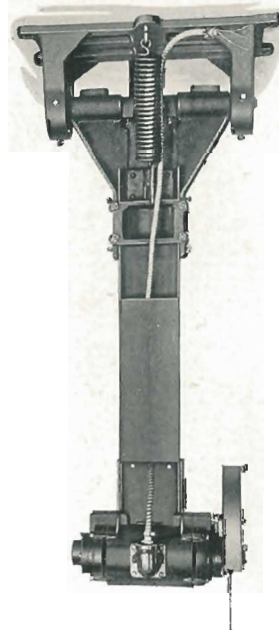
FRONT VIEW

HUNDREDS of our Swing Saws in use prove that they are especially adaptable to close, accurate work, and many operations can be completed with this saw which heretofore have required cutting the stock oversize and then jointing to the final close dimensions. This is accomplished both by means of the close adjusting arrangements incorporated in the design of the saw and by reason of the weight in the saw head, which eliminates vibration, this weight being so balanced as to make the saw less difficult to operate than the ordinary swing saw.

The saw is furnished with a cast iron hanger of unified construction to insure rigid support and eliminates vibration. Each side arm has a four-way adjustment for aligning purposes.

A rocker coil spring is provided in place of the ordinary counter-balance weight to increase speed of operation and to make the machine more compact, or saw can be furnished with ordinary counter-balance weight if desired.

THE Motor has proper leads in terminal box with necessary diagram so that speeds from 1500 to 7200 R. P. M. voltage of 110 to 440 can be immediately obtained for operation on frequencies of from 50 to 120 cycles; 3 phase power.



REAR VIEW

STANDARD right hand machine, as shown in cut, has saw on left side of column. Can be furnished left hand when ordered with saw on right side of column.

As a safety feature, the saw guard extends completely over the top half of the saw on both sides. The handle is extra long and is so designed with reference to the guard as to eliminate danger to the operator's hand.

With ample power this new design permits a range of cutting from the small shop requirements up to heavy-duty service in car shops and saw mills. A 20" blade will cut through 6" stock.

We recommend a 20" blade.

The equipment with this swing saw includes saw guard, motor and starting box, and complete set of wrenches, one 20" saw.

SPECIFICATIONS

- Type number 1
- Center of arbor to ceiling.....4, 5, 6, 7, 8 ft.
- Diameter of arbor of saw hole.....1 1/8 in.
- Speed of saw when operated on 60 cycles.....1,800 or 3,600 R. P. M.
- Horsepower required.....3 or 6
- Center of arbor to hinge shaft 8 in. less than center of arbor to ceiling.
- Domestic shipping weight approximately.....550 lbs.

Current requirements and length to ceiling should be specified on order.

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DIRECT MOTOR DRIVEN
BALL BEARING

BELTLESS

EAGLESFIELD

DIRECT MOTOR DRIVEN BALL BEARING

TILTING ARBOR SAW

With Detachable Spindle Ends

Type 2

A Miter Saw for Every Purpose

Dust Hood Travels with Saw

Motor Direct on Arbor Minimum Floor Space

No Belts No Pulleys No Gears

Counterbalanced Arbor Cradle

No Countershaft

Wired Ready To Run

R. D. EAGLESFIELD, INC.

Indianapolis, Indiana

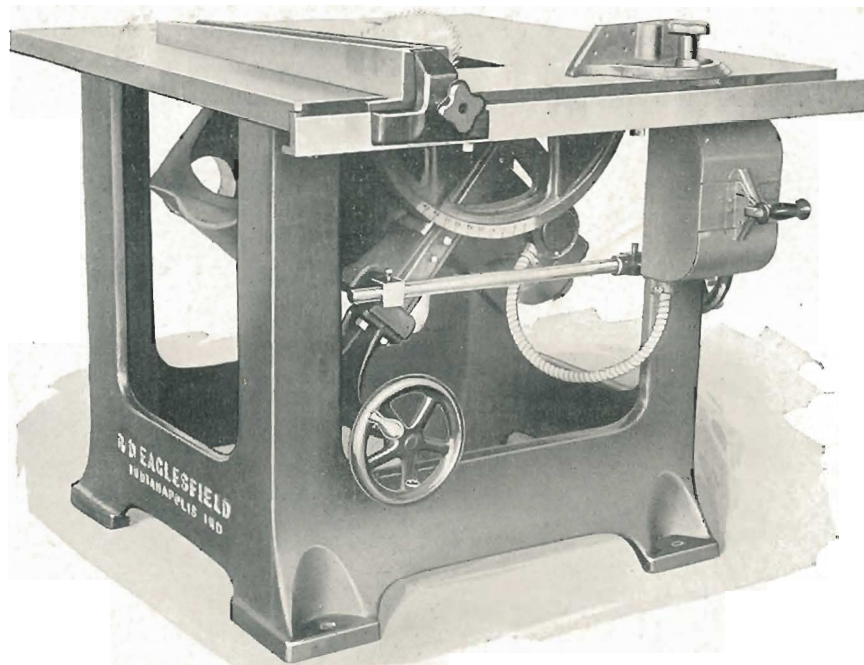
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DIRECT MOTOR DRIVEN BALL BEARING

BELTLESS



EQUIPMENT

One of any size rip or cut-off saw up to 16 inch. Unless otherwise stated on order we will furnish one only 14-inch cut-off saw.

One adjustable plain rip gauge, machined on both sides to enable ripping from either side of saw.

One graduated cut-off gauge, indexed for cutting miters ten degrees past forty-five degrees each way; gauge assembly mounted on tongued steel slides which is accurately fitted to slide in T slots which are machined in table on both sides of saw.

One detachable screw on spindle with necessary collars, spacers and nut. Two special forged spindle wrenches.

One wood laminated throat piece.

Shipping weight complete domestic shipment, approximately 1,400 pounds.

Motor has proper leads in terminal box with necessary diagram so that speeds from 1,500 to 7,200 R. P. M. voltage of 110 to 440 can be immediately obtained for operation on frequencies of from 50 to 120 cycles; 3 phase power.

THE motor and spindle are arranged to elevate and also to tilt so as to secure forty-five degree miters. This enables the operator to work his stock flat on the table, which is naturally the most advantageous and easiest method.

DETACHABLE SPINDLE TOPS. This feature allows free choice of size and type of spindle top best suited to meet the requirements of your particular work. Saves delays and costly repair bills in case of accidental damage to working end of spindle.

ARBOR has bearings $2\frac{1}{4}$ -in. next to saw and $1\frac{3}{8}$ -in. at the opposite end. The arbor diameter where saw fits is $1\frac{1}{8}$ -in. and has extension to carry 3-in. wide dado head. Arbor is arranged to tilt up to forty-five degrees, the angle being indicated as shown in the cut on the operator's side of the machine

ARBOR CRADLE. The saw arbor is hung at both ends of its housing in a large cradle so that it remains at the same angle regardless of what depth the saw is through the table. This cradle construction eliminates any binding and sticking from sawdust getting in the mechanism. Hand wheel conveniently placed at the right of the operator works the tilting mechanism and the hand wheel in front of the operator raises the saw. This elevating mechanism has enough range so that dado heads and saws can be let through from the bottom of the throat piece, so as to have a minimum amount of clearance between the saw and the throat.

TABLE has lock grooves to take care of cut-off gauges. A large throat section for wooden throats is provided for dado heads. Ripping fence is made so that it works either right or left and the gauge goes clear across the front of the table.

BASE is a substantial single piece casting, making machine very accessible.

DUST HOOD, the outlet of which is 5-in. in diameter, travels with the saw arbor so that the operator is not annoyed with the usual stream of dust thrown in his face where this construction is not used.

CUT-OFF GAUGES are indexed ten degrees past forty-five. Index markings being marked on a milling machine in the gauges themselves so that no inaccuracy is possible. They are mounted on steel slides which slide in the grooves, so that the operator is not bothered with the gauges lifting up where heavy stock is being worked. They are drilled so that wooden faces or jigs can be attached to them.

EQUIPMENT. Any size saw up to 16-in. One adjustable cut-off gauge; one ripping gauge.

CAPACITY. Any saw up to 16-in. can be used. A 16-in. saw will cut through $4\frac{1}{8}$ -ins. above table top.

SPECIFICATIONS. Table is 40x40 inches. Height from floor 34 inches.

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DIRECT MOTOR DRIVEN
BALL BEARING

BELTLESS

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DIRECT MOTOR DRIVEN
BALL BEARING

Type 3

*NON-TILTING
VARIETY SAW*

Minimum Floor Space

No Belts

No Gears Motor Direct on Arbor

No Countershaft No Pulleys

Wired Ready To Run

R. D. EAGLESFIELD, INC.

Indianapolis, Indiana

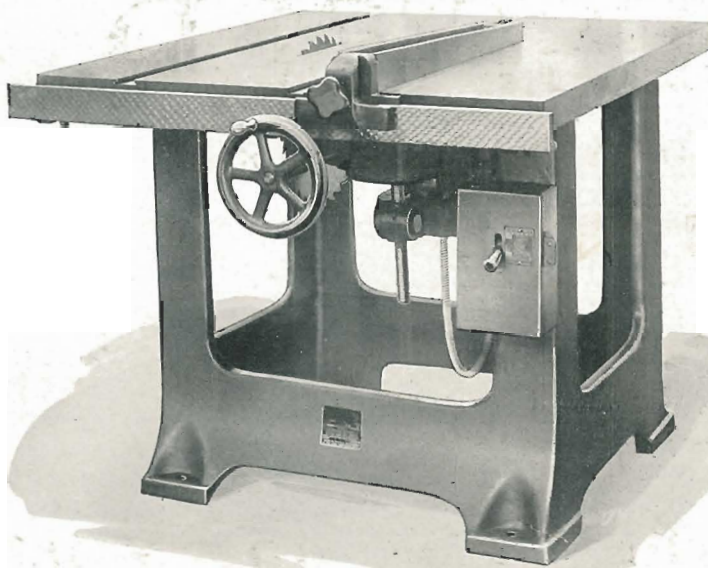
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PIONEER

DIRECT MOTOR DRIVEN BALL BEARING

BELTLESS



THIS machine has been designed to take of the highest grade Cabinet Shops, Pattern Shops and Manual Training Schools.

The large concern that wants quantity production in ripping, cutting off, etc., but does not need a machine with a tilting arbor or table.

For the concern that requires an inexpensive tool for making boxes, dadoing, mill-wrighting, storage bins, etc.

TABLE is 42" square and ribbed so as to give a rigid construction. Ripping fence can be used on either side of the saw.

BASE. Is of one-piece construction, making a very rigid machine. Height of machine from floor to table top is 34".

THE MOTOR is the same Eaglesfield "Beltless" construction, with a 3600 R. P. M. polyphase ball-bearing motor direct on 2" spindle, mounted in extra large ball bearings. The motor and spindle are arranged for vertical adjustment so as to accommodate different size saws.

THE elevating mechanism for the saw mandrel and motor is so arranged and driven by three bevel gears which are mounted in a dust-proof case, that operates through a hand wheel which is conveniently located immediately in front of the operator making it unnecessary for him to get near the blade itself to make any adjustment.

On special order, at the same price, this machine can be built left hand to be used for matching in box factories, furniture factories, cabinet factories, etc. It is unexcelled for this purpose.

The machine will handle 20" blade and without change can handle 14 x 1/2" dado head.

Additional dadoing capacity can be furnished on special order.

The motor has proper leads in terminal box with necessary diagram so that speeds from 1500 to 7200 R. P. M. voltage of 110 to 440 can be immediately obtained for operation on frequencies of from 50 to 120 cycles; 3 phase power.

CUT-OFF GAUGES. Machine can be furnished with or without cut-off gauges as required. They are indexed ten degrees past forty-five; index markings being milled on a milling machine in the gauges themselves, so that no inaccuracy is possible. They are mounted on steel slides which slide in the grooves so that operator is not bothered with the gauges lifting up where heavy stock is being worked. They are drilled so that wooden faces or jigs can be attached to them. Any saw up to 20" can be used. 20" saw will cut stock 6" thick.

EQUIPMENT

One rip or cut-off saw, any size up to 20 inch.

14 inch rip saw furnished with machine unless otherwise ordered.

One adjustable plain rip gauge, machined on both sides, to enable ripping on either side of saw.

One Mandrel wrench.

Shipping weight complete approximately 1,200 pounds

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DIRECT MOTOR DRIVEN
BALL BEARING

BELTLESS

EAGLESFIELD

DIRECT MOTOR DRIVEN BALL BEARING

“BELTLESS”

Type 6

CHAIN-FEED RIP SAW

Manufactured under Patents dated Sept. 8 and 15, 1914

Offering You the Latest and Most
Decided Development in Rip Saws

No Belts

No Worm Gears

No Pulleys

The Only All Steel Roller Chain

No Gear Speed-Changing Devices

No Babbitt Boxes

Both Saw and Arbor Motor Easily Accessible

Minimum Floor Space

No Spur or Bevel Gears

No “Wear Out” as even chain tracks are renewable and adjustable

Wired Ready To Run

R. D. EAGLESFIELD, INC.

Indianapolis, Indiana

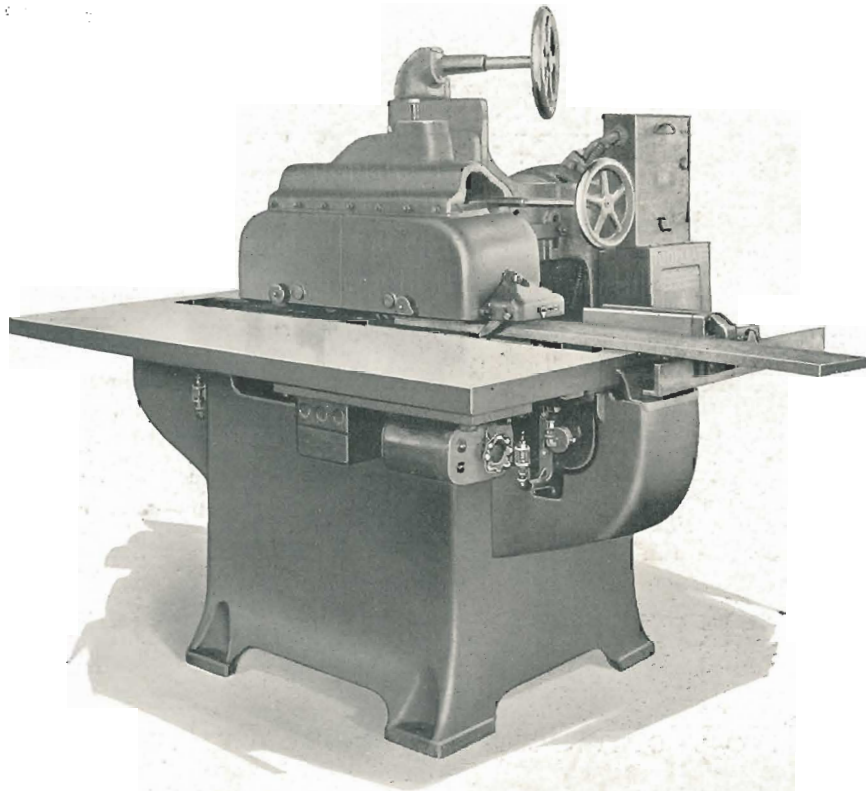
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PIONEER

DIRECT MOTOR DRIVEN BALL BEARING

BELTLESS



FEED WORKS

Four rates of feed are procurable—67, 100, 134, 200—according to requirements. The feed chain is driven by a multi-speed motor, controlled by a simple drum switch conveniently located to the operator, instead of the usual multiplicity of sprockets, gears, chains, idler shafts, pulleys, belts, belt tighteners, with speed changing lever, etc. The driving is accomplished by a twelve-tooth Link-Belt "Flinttrim" sprocket, ball-bearing connected to a four-speed motor.

The idler sprocket is a duplicate of the driven sprocket also mounted on ball bearings with an adjustment to take up to five inches. The spindle motor is mounted on ball bearings vertically adjusted on slides inside of the arm, and is controlled with over-load and under-voltage protection.

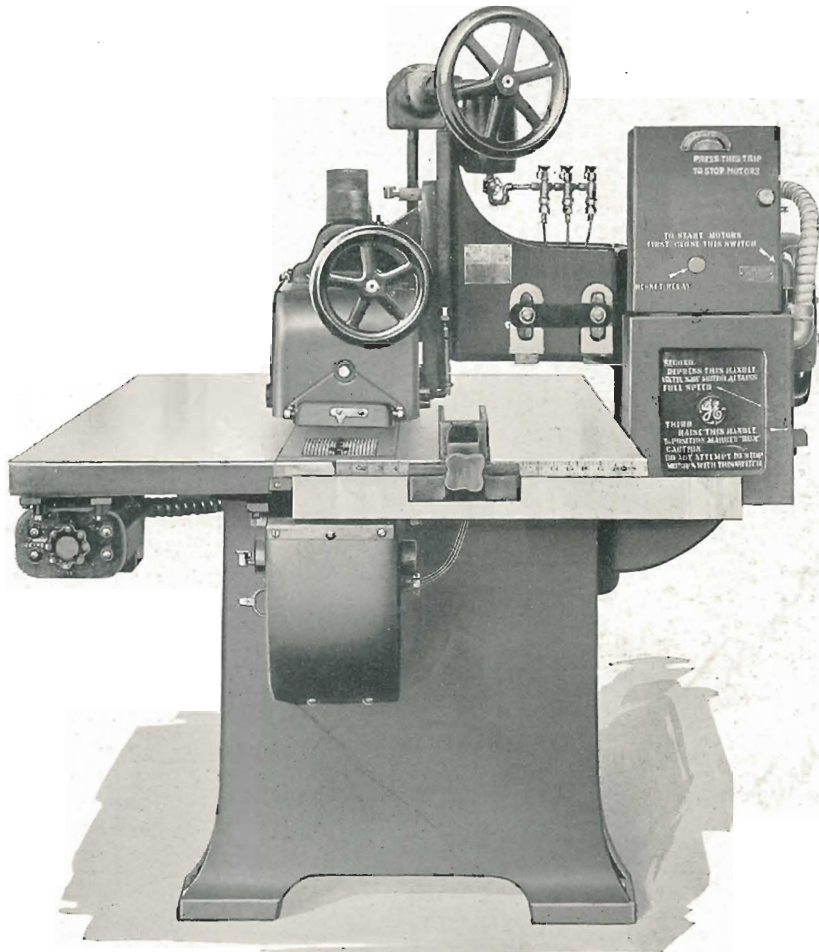
The feed rolls are mounted on spring tension yokes, with the individual yielding action, all the feed rolls being ball bearing equipped. The oiling is accomplished at one point by means of hollow shafts, lubricating the tension yokes and all the ball bearings.

DUE to the design of our chain and the special spring arrangement of the first infeeding roll, it is not necessary for the operator to push the stock under the roll. This is a unique feature of this machine and enables our machine to take hold of the board with less effort than any other tool on the market. Proof of this is that operators are feeding the Eaglesfield Straight Line Ripper at a faster rate of feed than any other tool on the market.

When we say BALL BEARING we mean BALL BEARING THROUGHOUT. This machine is no exception to the standard of manufacture established by Eaglesfield in 1909. Every bearing a ball bearing of proper size and capacity.

Note the interlacing, overlapping kick-back preventer. This special feature has received highest commendation from State Industrial Boards, and operators invariably commend the machine because of the fact that they can not get hurt. A centrally located oil reservoir with three sight feed automatic drip lubricators positively takes care of lubricating the chain. One valve controls the entire lubrication of the chain. One oiler lubricates each half of the roll mechanism, taking care of eight bearings in such an efficient manner that we have never had a bearing replacement on any of the machines that have been out for a long period of time.

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PIONEER**DIRECT MOTOR DRIVEN
BALL BEARING****BELTLESS**

AS THE Pioneer Builders of Ball Bearing Direct Motor Driven Woodworking Machinery, our experience on this machine enabled us to incorporate in the original tools bearings of such size and capacity that our customers have no trouble with bearings even though our machine is the fastest machine on the market and therefore subject to the most abuse.

This is the original Direct Motor Driven Chain-Feed Rip Saw and when we specify "Direct Motor Driven" we do not mean any combination outfit where one motor drives one spindle and the feeding mechanism by old obsolete transmission methods. Our feed mechanism requires less power than any machine on the market and is the only fool-proof long life mechanism to handle the terrific shocks that the all steel feed chain is constantly subjected to.

Note the convenient rule gauge.

FOR ACCURATELY edging crooked and uneven stock, cutting out checks and imperfections, matching up and jointing stock—obviously saving time and labor through the elimination of two to three operations—the Chain-Feed Rip Saw has proven superior to other machines for the purpose.

Several steps in the development of this machine enables us to present to the trade the latest Chain-Feed Rip Saw embodying construction features which are not to be had in any other make.

CAPACITY The Eaglesfield "Beltless" Chain-Feed Rip Saw will rip stock as thick as 4-in. Distance from saw to left hand of table is 20½-in. Largest diameter of saw used is 16-in.; smallest, 12-in. A 14-in. saw is furnished with machine.

BASE AND TABLE The base is a one-piece box casting on which the table is securely bolted. There are no operating parts in the base. The table is a one-piece U section casting with the chain pocket milled the full length. At the out-feed end of the chain there is a wooden safety block which is pushed out should the off-bearer get his hand in the chain. The rip gauge allows for 20-in stock to be ripped between the saw and the arm, and is of the usual box construction.

SAW ARBOR The arbor is 2⅜-in. at the bearing; 2-in. smallest diameter, and is mounted in S. K. F. ball bearings. The saw end is turned down to 1⅝-in. diameter. The saw eye is 1¾-in.

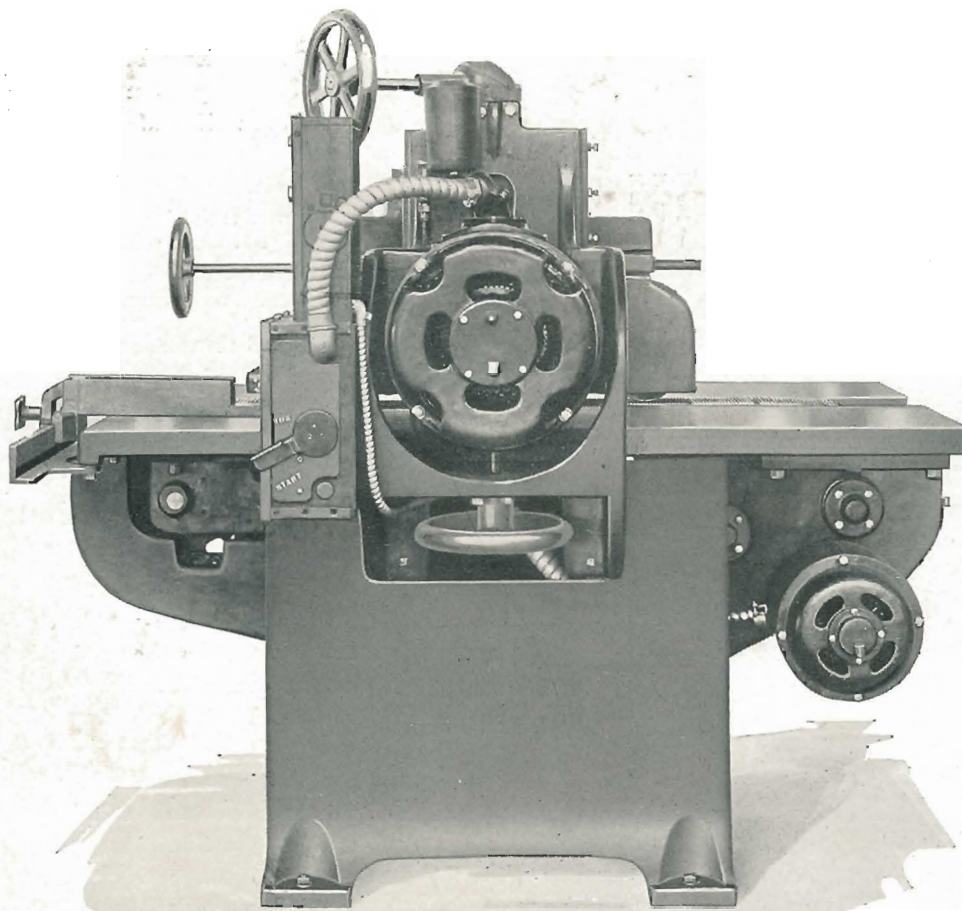
FEED CHAIN The chain is a hardened steel bushed roller chain, with all-steel feed plates traveling in renewable cast iron track having vertical and lateral adjustment. Because of the short chain pitch the chain has a very free approach to the table, running without noticeable vibration. It runs in an absolutely straight line, affording perfect conditions for straight ripping. Corrugations are milled in both directions on the chain plates holding the lumber firmly without bruising it. Extra clearance is provided in the hardened rollers so that they will not stick if oiling is temporarily neglected.

SAW HOUSING The front and back housings, carrying the tension rolls, are adjustable on renewable gibbed ways for varying thicknesses of lumber. To change the saw, these housings, which completely enclose the saw, are separated by a convenient hand-wheel operated right and left-hand connecting screw. The roll housings are gibbed to the elevating arm in the line of the pressure, thus doing away with the wear of the gibbs, which insures rigidity and long life.

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DIRECT MOTOR DRIVEN BALL BEARING

BELTLESS

SPECIFICATIONS

Floor space 60x48 inches. Saw and feed motor wired up complete with metal conduit to our special starter which has both no voltage and overload release and main line disconnect switch with push button in cover for opening which disconnects and stops both saw and feed motor at same time. Feed motor has an overload time element trip mounted ahead of its drum controller and is wired up to the lower side of disconnect switch in such manner as to make the feed motor phase cut with saw motor so that when the power service lines are connected to the top side of disconnect switch, both motors are ready for operation without further wiring expense to customer than connecting the power lines to terminals at top of disconnect switch.

THIS is the only machine on the market where the saw can be changed without raising or lowering saw arbor with its motor. This is accomplished by the use of our special renewable centering saw collar with safety driving dog. The saw does not fit on the shaft but on this renewable collar and the shaft can never be injured by the saw's eye. Due to the free running arbor, you can use thinner gauge saws than you ever thought possible. The machine will edge and rip any stock up to 4-in. in thickness as you have 4½-in. clearance under the arm. Due to the straddle rolls short stock can be fed at fast speeds.

Distance from saw to right side of table 21-in., 28-in. to left side of table. Extension table for matching can be furnished. Note the solid one-piece box type base which serves the single purpose of bringing the table to the proper height—there being no "internal works to get at inside of this base."

The machine tool accuracy attained in the manufacture of this tool will be a revelation to you.

Built in four motor capacities: 7½ H. P., 10 H. P., 15 H. P. and 20 H. P., 220- 440- 550-Volts, two or three phase.

One Blade 14-in. diameter, 1¾ bore, 12 gauge.

One stock guide except in case of machine equipped with matching table where the extra price for table includes an additional stock guide.

Set of feed chain guards for top and bottom front and rear end.

One special kick back preventer with double row of fingers for additional safety to operator.

Rule gauge for setting stock gauge to width of cut.

Special three-point sight feed automatically oiling chain, plates, chain roller and chain guide trackways, in a convenient location, so that operator cannot fail to give it proper attention.

The four rates of feed are 67, 100, 134 and 201 feet per minute.

Oil tank mounted.

Completely wired for installations. Shipping weight approximately 3900 pounds.

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PIONEER

DIRECT MOTOR DRIVEN
BALL BEARING

BELTLESS

EAGLESFIELD

DIRECT MOTOR DRIVEN

STRAIGHT AND ANGLE CUTTING

BENCH SAW

FOR WOOD OR METAL

“ BELTLESS ”

Type 11

A Money Maker for Any Plant

Spring Counterbalanced

No Belts

No Gears

Motor Direct on Arbor

Wired Ready To Run

For dozens of purposes. The Safest Machine on the market.
Note the traveling guard, with the saw covered at all times.

R. D. EAGLESFIELD, INC.

Indianapolis, Indiana

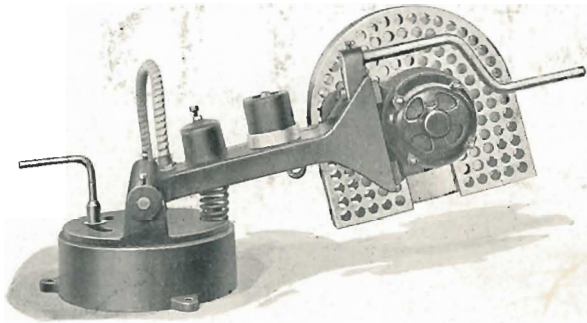
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It's A Bench Tool

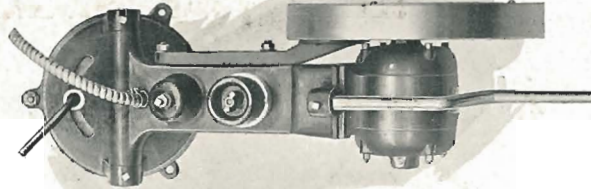
To Render Genuine Service

Handy at the bench in factory, and handy on building job where woodwork is being set up.

Set the Eaglesfield Angle Saw on any work bench or mount it on a portable table and connect extension to nearest electric light socket. Saves steps to big machines; saves power costs; expedites production.

For trimming, squaring, beveling and mitering mouldings and strips at bench; for cutting narrow slots for splines or metal fittings; for pointing pickets or stakes; for cutting notches; cutting dry-kiln samples; cutting moulding samples. Especially adapted to trimming bad ends of material at in-feeding and out-feeding ends of moulders where space is limited—saves carrying material to cut-off machines or using hand saw. Can be used to good advantage for cutting rip-saw edgings into kindling wood. Or it can be made to rise and fall automatically to perform some special operation. A boy can operate it safely.

The guard is unique in that it is mounted on a separate arm.



The saw goes into the material, while the guard is protecting the operator.

SPECIFICATIONS

Cuts with down stroke, quick return by adjustable coil spring.

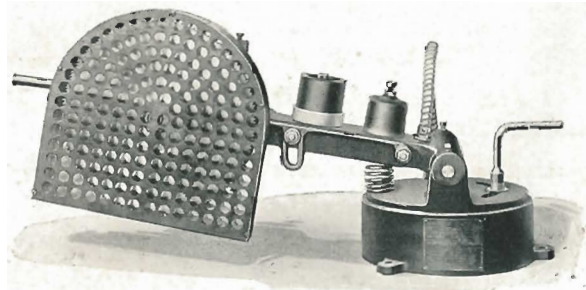
Pivoted end of swinging frame swivels around horizontally in 10-in. circular base, which has graduated scale to give quick, accurate setting for bevel or miter cutting.

Will cut through material $1\frac{3}{4} \times 5\frac{1}{2}$ -in. Takes 12-in. saw. Aluminum guard completely covers saw, except part in cut.

Motors built for 2 or 3 phase, 220 or 440 volts, 1 H. P. capacity. Single phase motors $\frac{1}{2}$ H. P. capacity can be furnished at the same price 110 or 220 volts.

We recommend the use of the 2 or 3 phase as you get more horsepower and more reliable operation.

Shipping weight approximately 150 lbs.



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DIRECT MOTOR DRIVEN
BALL BEARING

BELTLESS

EAGLESFIELD

DIRECT MOTOR DRIVEN

EDGE BELT SANDER

DOUBLE ADJUSTABLE TABLE

Type 12

No Belts

No Gears

Minimum Floor Space

No Plain Bearings

Continuous Table Cast-Iron

Easily Adjusted

Wired Ready To Run

Sand Belt can run over $\frac{1}{2}$ " Ball Bearing Shaft. This saves Paper.
Customers save price of machine in time and sand paper.

R. D. EAGLESFIELD, INC.

Indianapolis, Indiana

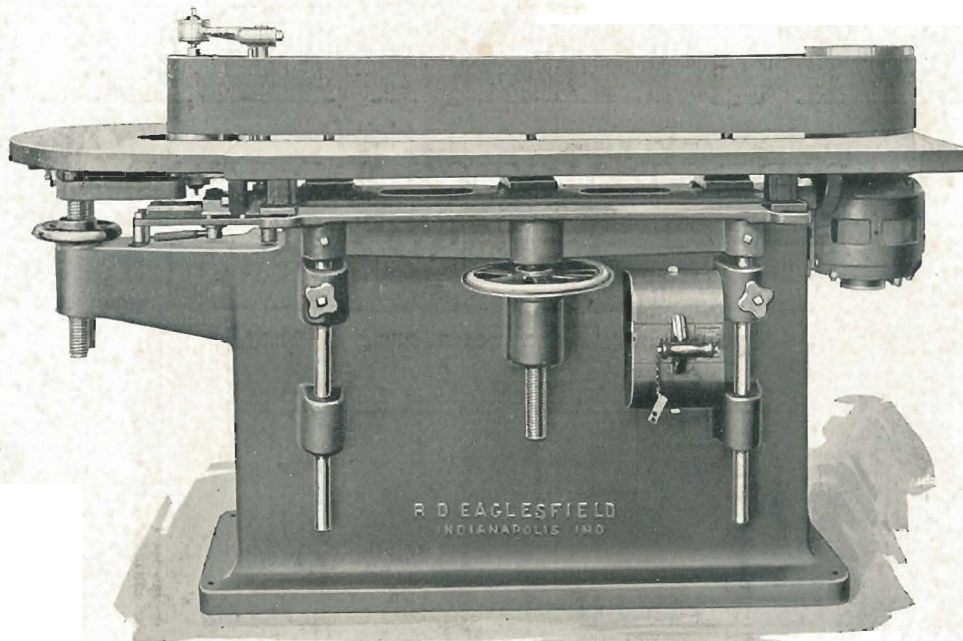
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TO MEET the demand for an Edge Belt Sander where the belt would run over $1\frac{1}{2}$ " revolving spindle in place of over stationary forms, this machine was produced. One of our customers advises us that this feature alone pays for the machine in a very short time on sandpaper because of the constant burning action obtained by running the paper around small stationary forms.

On the vertical idler spindle can be mounted any size idler pulley required—the one furnished with the machine being $4\frac{1}{2}$ " in diameter, made from steel tubing for lightness.

The vertical motor driving this machine has ample power to take care of any customers requirements, and because of the fact that no power is wasted in operating a useless oscillating mechanism, less than half of the power is consumed than you are accustomed to. Built 2 or 3 phase, to operate on power 220, 440 or 550 volts.

With the convenient tension mounted on the left hand of the machine customer can oscillate his paper to suit his ideas. The greater the tension the less the oscillating—on the same principle that a leather belt follows a crown pulley if sufficient tension is applied.

The massive construction of this machine guarantees its operation without vibration on the upper floors of your factory, where this type of sanding is usually done. Great care has been taken to make this a self contained machine that will operate without any special foundation or rigid floor. It is also unnecessary to bolt this tool to the floor.

Note the in-and-out and angle adjustments of the end table, and the complete angle adjustments with elevating mechanism of the front table. Necessary back supports are furnished on which can be mounted any form that is required to back up the belt.

Our standard belt speed is 3,000 feet per minute, which is the proper speed as determined by extensive experiments in customers plants, however, can be changed to meet special conditions.

This makes a very convenient machine for sanding drawers, flat surfaces, sash and doors, any planing mill work, novelty work such as radio boxes, etc.

The machine will carry 8" belts, but no belts are furnished as regular equipment.

Vertical 1,200 R. P. M. motor drives direct the driving pulley. All spindles ball-bearing equipped; furnished with necessary back board form supports, adjustable front table and universal adjustable end table, with motor and control wired ready to run. Approximate shipping weight 1,450 pounds.

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