Dependable MACHINE COMPANY, Inc.

Manufacturers

WOODWORKING MACHINERY

GREENSBORO, NORTH CAROLINA
U. S. A.

OUR POLICY "Dependable Quality and Service"

The success of our company depends upon the favorable judgment of those who buy our products. For this reason we desire to leave nothing undone that will be of the kind of help and benefit to our customers that will increase their goodwill toward us. Both our customers and we find it necessary out of our efforts, to render services to make a profit. Thus our motto "Dependable Quality and Service".

We want to put our full effort towards increasing the quality and performance of our products. We put first and foremost the thought that our products require the best of engineering, the best of materials, and the best in manufacturing.

We have endeavored, by having a complete organization and efficient production methods, to keep our overhead and production costs as low as possible so that we can give you quality products at the lowest possible cost.

We are always open to suggestions for improvements, from our customers. Without YOU, we would not be in existence, so we want to manufacture the products you want to operate the way you want them to operate.

OUR GUARANTEE

All machines are fully guaranteed for ONE YEAR against defects in material and workmanship.

OUR TERMS

All prices are F. O. B. factory. Prices are subject to change without notice. Our terms are generally 2% 10 days, Net 30 days. In regard to purchases of machinery involving a large sum of money we sometimes are able to offer more favorable terms. We will be glad to furnish further information upon request.

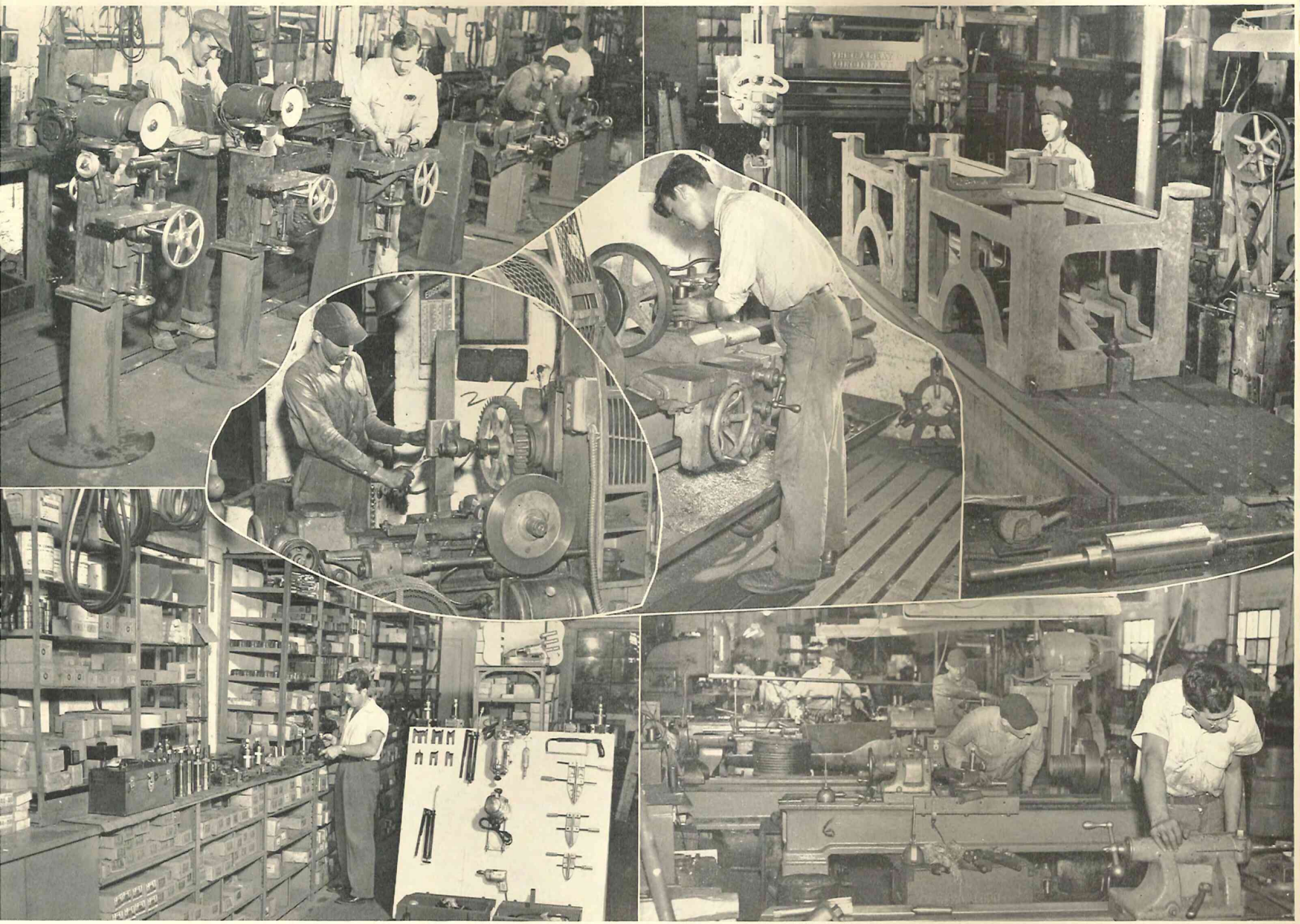
Dependable **MACHINE COMPANY, INC.**

Greensboro-High Point U. S. Hgw. No. 29-70 **Telephone 2-2954**

GREENSBORO, N. C.—U. S. A.

Catalog No. 110

DEALERS IN PRINCIPAL CITIES



Reading Clockwise, upper left, Assembly Operation, Planing Rip Saw Bases, View of Lathes, Mill Supply View; center left, Automatic Gear Cutter; center right, Facing Gear on Lathe before Cutting Operation.

Dependable

KNIFE GRINDING EQUIPMENT

TWENTY-ONE MODELS TO CHOOSE FROM

QUALITY AND SERVICE

OUR PLANT LAYOUT

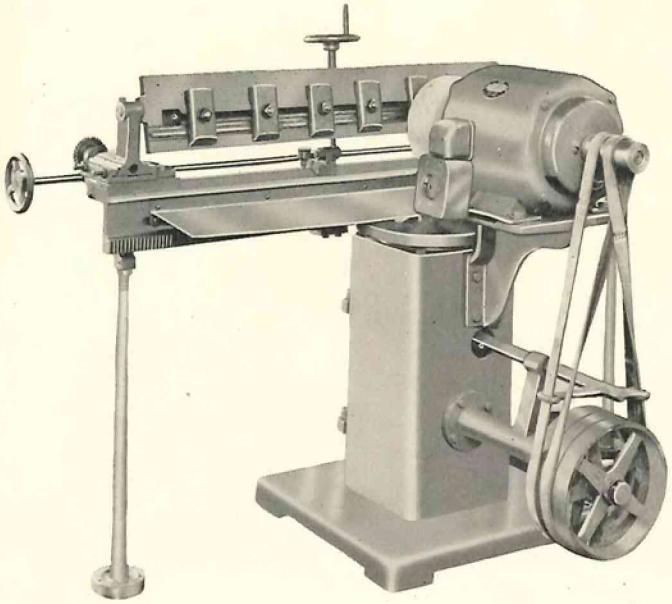
DEPENDABLE Automatic KNIFE GRINDERS

MODEL NUMBERS:

99-A—36" Dependable Semi-Automatic, Ball Bearing Knife Grinder, Direct Motor Driven.

98-A—30" Dependable Semi-Automatic, Ball Bearing Knife Grinder, Direct Motor Driven.

These machines can be furnished with attachment Model No. G55 for "upside down grinding" or from point to heel, as optional equipment. Page 18.



These Grinders are equipped with standard brand 1½ H.P. single or 3 phase, 60 cycle, 110, 220 or 440 volts, 1200 R.P.M., ball bearing, heavy duty, dust sealed motors.

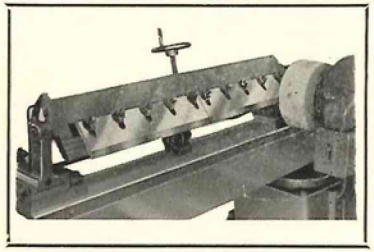
● **BALL BEARING** ● **ACCURATE** ●

● EASY TO OPERATE ● LONG LIFE ● LOW COST ●

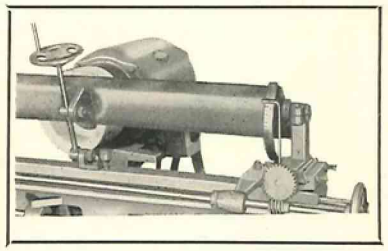
These machines are designed to give the utmost in service, efficiency, and accuracy as well as economy in operation.

CONSTRUCTION The machine parts are made of the best grade gray cast iron mounted on a steel base making it very sturdy. All machined parts are held to close tolerance and well put together to assure maximum operating efficiency.

Grinds Thick and Thin Knives



STRAIGHT GRIND
OR
HOLLOW GRIND



FEED The feed is semi-automatic, adjusted by hand, by means of a single handwheel which runs both ends of the knife plate up evenly to the grinding wheel. Knife plate travels on dovetailed slides scraped to perfect bearing and gibbed for rigid and accurate performance.

SOLID KNIFE PLATE Makes it very sturdy. Grooves and keys in the knife plate makes it easy to accurately set thin knives for grinding. Knives are set from the heel. It is impossible to set the knives crooked if they are set back against the key. This will save the operator considerable time in setting the knives. When grinding a pair of knives it will make them near equally balanced. It will eliminate wasteful grinding of knives. The knife carriage works automatically, and travels on Vee slide which gives smooth operation, and shifting, of direction, of the carriage.

END RAIL STANDS Eliminate any possible vibration, and give added ruggedness to the machine.

HAND WHEEL For adjustment of knife plate to any angle with accurate degree gauge from 0° to 60°. The angle you grind on your knives should depend on the kind and condition of the material you are cutting.

OPERATING SPEED OF SPINDLE On knife grinder is 1200 R.P.M. This is the speed found to be most suitable after years of research and testing.

STEEL CUT RACK Operates with steel cut pinion gear insuring a quiet running machine and long life. All gears are machine cut. There are no cast gears used. This makes a quiet running machine.

PRESSURE GREASE CUP In center of track insuring grease where it is needed most. Olite bushing in idle pulley. Does not require oiling.

DUST PAN Improved dust pan prevents emery dust from wearing moving parts. Gives machine longer life. Little maintenance cost.

EQUIPMENT Equipped with 8" cup wheel best suited for high speed knives. Necessary belts furnished. Push button switch for motor. Weight crated—99-A, 800 lbs.; 98-A, 775 lbs. Floor space 6'x4'.

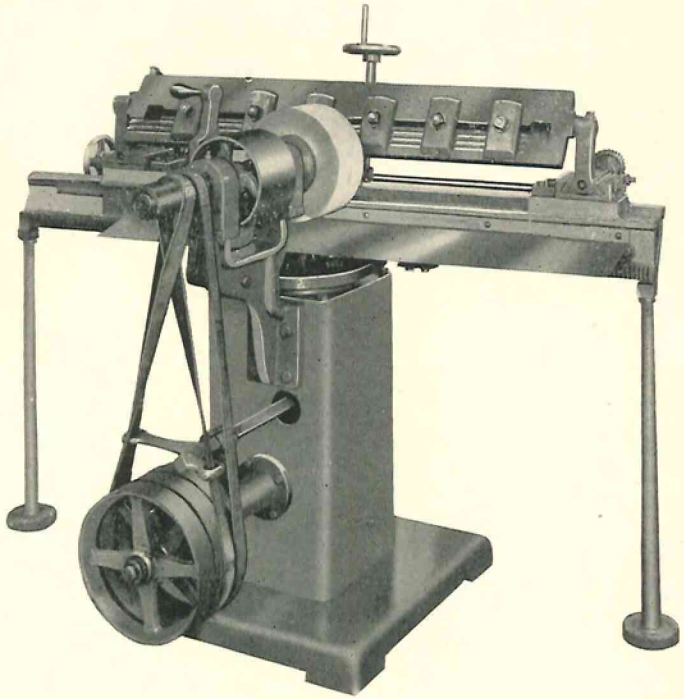
DEPENDABLE Automatic KNIFE GRINDERS

MODEL NUMBERS:

99—36" Dependable Semi-Automatic, Ball Bearing Knife Grinder, Belt Driven Type.

98—30" Dependable Semi-Automatic, Ball Bearing Knife Grinder, Belt Driven Type.

These machines can be furnished with attachment Model No. G55 for "upside down grinding" or from point to heel. Page 18.



Ball Bearing

Belt Driven

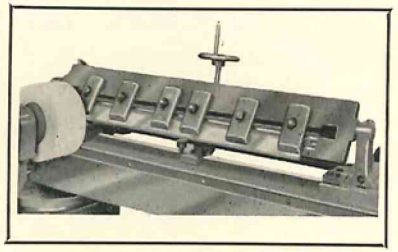
Designed for the Small Plant

● EASY TO OPERATE ● LONG LIFE ● LOW COST ●

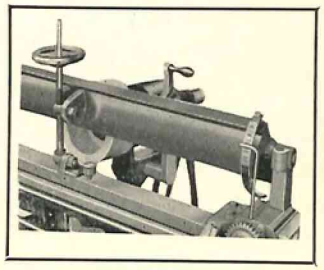
These machines are designed to give the utmost in service efficiency, and accuracy as well as economy in operation. These are designed for plants using one power unit.

CONSTRUCTION The machine parts are made of the best grade gray cast iron mounted on a welded all steel frame with a wide flange base making it very sturdy. All machined parts are held to close tolerance and well put together to assure maximum operating efficiency.

Grinds Thick and Thin Knives



STRAIGHT GRIND
OR
HOLLOW GRIND



FEED. The feed is semi-automatic, adjusted by hand, by means of a single handwheel which runs both ends of the knife plate up evenly to the grinding wheel. Knife plate travels on dovetailed slides scraped to perfect bearing and gibbed for rigid and accurate performance.

SOLID KNIFE PLATE Makes it very sturdy. Grooves and keys in the knife plate makes it easy to accurately set thin knives for grinding. Knives are set from the heel. It is impossible to set thin knives crooked if they are set back against the key. This will save the operator considerable time in setting the knives. When grinding a pair of knives it will make them near equally balanced. It will eliminate wasteful grinding of knives. The knife carriage works automatically, and travels on Vee slide which gives smooth operation and shifting, of direction, of the carriage.

END RAIL STANDS Eliminate any possible vibration and give added ruggedness to the machine.

HANDWHEEL. For adjustment of knife plate to any angle with accurate degree gauge from 0° to 60°. The angle you grind on your knives should depend on the kind and condition of the material you are cutting.

OPERATING SPEED OF SPINDLE. On knife grinder is 1200 R.P.M. This is the speed found to be most suitable after years of research and testing.

STEEL CUT RACK. Operates with steel cut pinion gear insuring a quiet running machine and long life. All gears are machine cut. This makes a smooth running machine that will give a better grind.

PRESSURE GREASE CUP. In center of track insuring grease where it is needed most. Olite bushing in idle pulley —require no oil.

DUST PAN. Improved dust pan prevents emery dust from wearing moving parts. Gives machine longer life and little maintenance cost.

EQUIPMENT. Equipped with 8" cup wheel best suited for high speed knives. Belts for drive pulleys furnished. Equipped with push button switch for motor. Weight crated 99, 750 lbs.; 98, 680 lbs. Floor space 6'x4'.

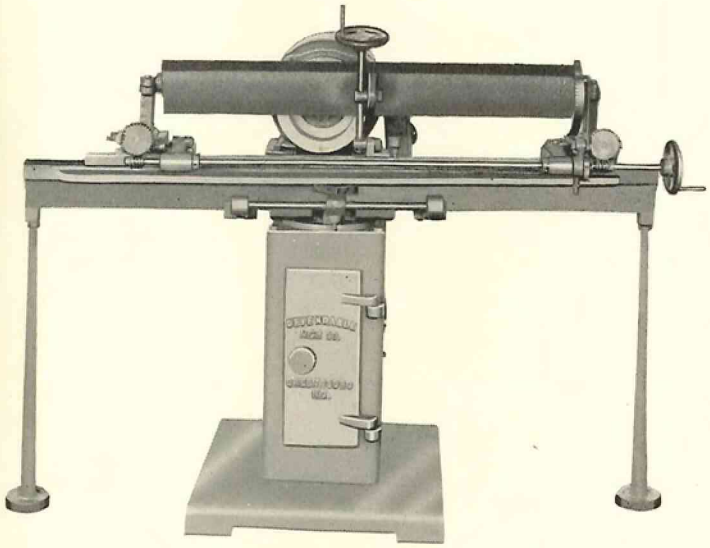
DEPENDABLE Automatic Feed KNIFE GRINDERS

Model Numbers:

99-A5—36" Dependable Full Automatic, Ball Bearing Knife Grinder, Direct Motor Driven.

98-A5—30" Dependable Full Automatic, Ball Bearing Knife Grinder, Direct Motor Driven.

These machines can be furnished with attachment Model No. G55 for "upside down grinding" or from point to heel. Page 18.



Direct Motor Driven

These grinders are equipped with 1½ H.P., Single or 3 Phase, 110, 220 or 440 volts, 60 cycle, 1200 R.P.M., Ball Bearing, Dust Sealed, Standard Brand Motors.

Ball Bearing
Long Life
Accurate

Mechanical Feed for Speed, Efficiency, Safety

These machines equipped with mechanical feed have many advantages. Knives can be ground more quickly, saving time, labor and money. There is no need for an operator to make grinding adjustments and to stay with the machine. The safety stop causes the machine to cease feeding when the knives become ground. There is greater efficiency with the mechanical feed. No excess grinding of your knives gives them longer life. The mechanical feed moves the knives up to the grinding wheel as little as half the thickness of a cigarette paper on each stroke.

CONSTRUCTION The best materials available are used in manufacturing these machines. The heavy duty, welded, all steel frame with a wide flange base makes it very rugged. All machined parts are held to close tolerance and well put together to assure maximum operating efficiency.

SLOTTED KNIFE PLATE FOR SPEED AND ACCURACY IN SETTING KNIVES

FOR
STRAIGHT GRIND
OR
HOLLOW GRIND
BOTH
THICK AND THIN KNIVES

AUTOMATIC FEED Has mechanical feed which feeds the knives up to the grinding wheel. Equipped with automatic cut-off. Single hand wheel for adjusting knives to grinding wheel in preparation for grinding. Knife plate travels on dovetailed slides scraped to perfect bearing and gibbed for rigid and accurate performance. Knife carriage work automatically, and travels on Vee slide which gives smooth operation and shifting, of direction, of the carriage.

SOLID KNIFE PLATE Makes it very sturdy. Grooves and keys in the knife plate makes it easy to accurately set the knives for grinding. This will save the operator considerable time in setting the knives. When grinding a pair of knives it makes them near equally balanced. It will eliminate wasteful grinding of knives.

HANDWHEEL For adjustment of knife plate to any angle with accurate degree gauge from 0° to 60°. The angle you grind on your knives should depend on the kind and condition of the material you are cutting.

END RAIL STANDS Eliminate any possible vibration and give added ruggedness to the machine.

OPERATING SPEED OF SPINDLE On knife grinder is 1200 R.P.M. This is the speed found to be most suitable after years of research and testing.

STEEL CUT RACK Operates with steel cut pinion gear insuring a quiet running machine and long life. All gears are machine cut. This makes a smooth running machine that will give a better grind.

PRESSURE GREASE CUP In center of track insuring grease where it is needed most. Olite bushing in idle pulley —does not require oiling.

DUST PAN Improved dust pan prevents emery dust from wearing moving parts. Gives machine longer life and little maintenance cost.

EQUIPMENT Equipped with 8" cup wheel best suited for high speed knives. Necessary belts furnished. Equipped with push button switch for motor. Weight crated—99-A5, 815 lbs.; 98-A5, 790 lbs. Floor space 6'x4'.

DEPENDABLE Automatic Feed KNIFE GRINDERS

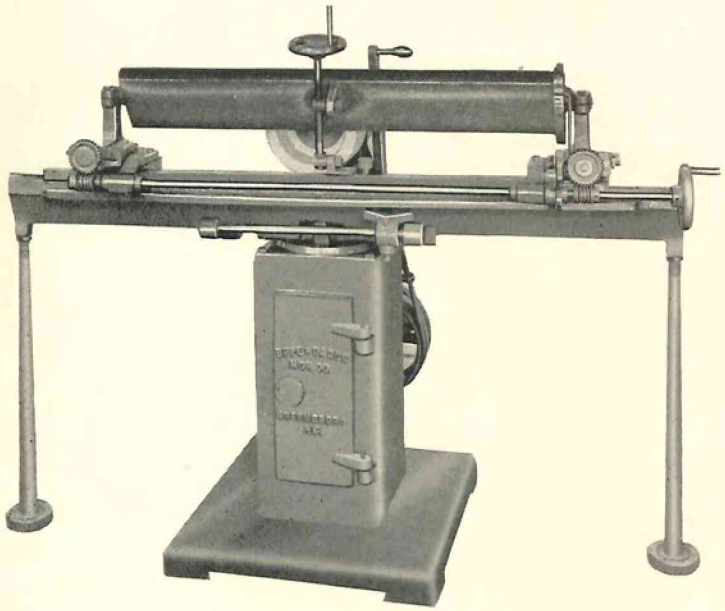
Model Numbers:

99-5 36" Dependable Full Automatic, Ball Bearing Knife Grinder, Belt Driven Type.

98-5 30" Dependable Full Automatic, Ball Bearing Knife Grinder, Belt Driven Type.

These machines can be furnished with attachment Model No. G55 for "upside down grinding" or from point to heel.

LONG LIFE • BALL BEARING • ACCURATE



Designed for Plants Using Single Power Unit

DEPENDABLE Full Automatic
Belt Driven **KNIFE GRINDER**

Mechanical Feed for Speed, Efficiency, Safety

These machines equipped with mechanical feed have many advantages. Knives can be ground more quickly, saving time, labor and money. There is no need for an operator to make grinding adjustments and to stay with the machine. The safety stop causes the machine to cease feeding when the knives become ground. There is greater efficiency with the mechanical feed. No excess grinding of your knives gives them longer life. The mechanical feed moves the knives up to the grinding wheel as little as half the thickness of a cigarette paper on each stroke.

CONSTRUCTION The best materials available are used in manufacturing these machines. The heavy duty, welded, all steel frame with a wide flange base makes it very rugged. All machined parts are held to close tolerance and well put together to assure maximum operating efficiency.

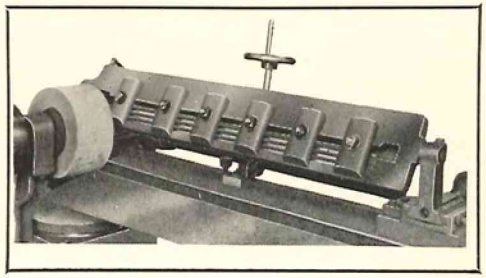
SLOTTED KNIFE PLATE FOR SPEED AND ACCURACY IN SETTING KNIVES

FOR

STRAIGHT GRIND OR HOLLOW GRIND

BOTH

THICK AND THIN KNIVES



AUTOMATIC FEED Has mechanical feed which feeds the knives up to the grinding wheel. Equipped with automatic cut-off. Single hand wheel for adjusting knives to grinding wheel in preparation for grinding. Knife plate travels on dovetailed slides scraped to perfect bearing and gibbed for rigid and accurate performance. Knife carriage works automatically, and travels on Vee slide which gives smooth operation and shifting, of direction, of the carriage.

SOLID KNIFE PLATE Makes it very sturdy. Grooves and keys in the knife plate makes it easy to accurately set the knives for grinding. This will save the operator considerable time in setting the knives. When grinding a pair of knives it makes them near equally balanced. It will eliminate wasteful grinding of knives.

HANDWHEEL For adjustment of knife plate to any angle with accurate degree gauge for 0° to 60°. The angle you grind on your knives should depend on the kind and condition of the material you are cutting.

END RAIL STANDS Eliminate any possible vibration and give added ruggedness to the machine.

OPERATING SPEED OF SPINDLE On knife grinder is 1200 R.P.M. This is the speed found to be most suitable after years of research and testing.

STEEL CUT RACK Operates with steel cut pinion gear insuring a quiet running machine and long life. All gears are machine cut.

PRESSURE GREASE CUP In center of track insuring grease where it is needed most. Olite bushing in idle pulley—requires no oil.

DUST PAN Improved dust pan prevents emery dust from wearing moving parts. Gives machine parts longer life.

EQUIPMENT. Equipped with 8" cup wheel best suited for high speed knives. Necessary belts furnished. Equipped with push button switch for motor. Weight crated—99-5, 775 lbs.; 98-5, 700 lbs. Floor space 6'x4'.

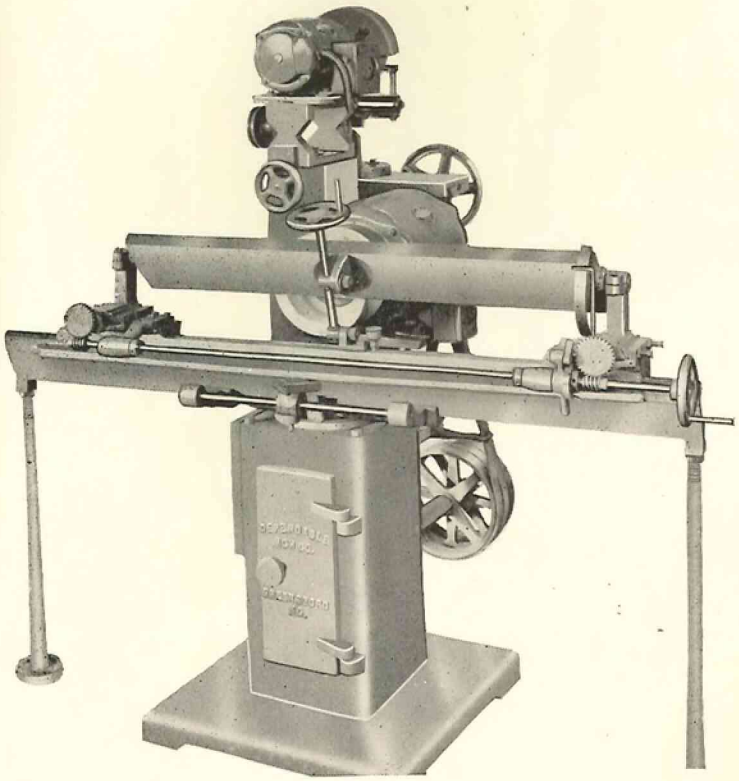
DEPENDABLE Combination KNIFE and SIDE HEAD GRINDERS

Model Numbers:

105-A—30" Dependable Full Automatic Combination Knife and Side Head Grinder, Direct Motor Driven, Ball Bearing. Weight Crated 1400 lbs. Floor Space 6'x6'.

105-A5—36" Dependable Full Automatic Combination Knife and Side Head Grinder, Direct Motor Driven, Ball Bearing. Weight Crated 1425 lbs. Floor Space 6'x6'.

These machines can be furnished with attachment Model No. G55 for "upside down grinding" or from point to heel. Page 18.

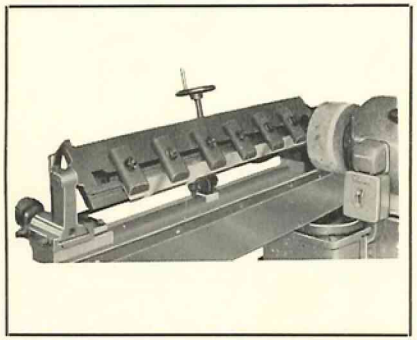


DIRECT MOTOR DRIVEN

Save Labor, you ask? Yes Sir, we answer! These combination machines will do just that. Saved labor is money in your pocket. We all wish to cut costs to ease the decreasing margin of profit of today. Dependable Full Automatic Combination Knife Grinders can save you labor because they are FULLY AUTOMATIC (except for the side head unit), with mechanized feed and equipped with safety stop. Clamp your knives on, adjust, and your knives will be ground accurately and quickly. Your operator can be grinding the side heads while the other knives are grinding.

These two machines are combined for economy of space and ease of operation. Each machine is operated separately. This is truly a "push-button" job, with the following special features:

MAIN GRINDERS 1. Handwheel for fast accurate adjustment of knives to grinding wheel. 2. Knife plate has grooves and keys for accurate and easy setting of knives. 3. Heavy duty, standard brand, 1½ H.P., 60 cycle, single or 3 phase, 110, 220 or 440 volts, 1200 R.P.M., dust proof, ball bearing motor. 4. Automatic stop adjustment on mechanical feed. 5. Ratchet feeds .001 or more each travel of the knife carriage to the amount set by the operator, then automatically lifts pawl out of ratchet feeds even at each end. 6. Push button switch furnished for motor. 7. Grinds thick and thin knives either straight ground or hollow ground. 8. Operating speed of spindle on knife grinder is 1200 R.P.M.—the speed most suitable for high speed knives. 9. Steel cut rack operates with steel cut pinion gear, insuring a quiet running machine with long life. 10. Pressure grease cup in center of track where it is needed most. 11. New, improved dust pan prevents emery dust from wearing moving parts. Gives machine longer life. 12. 8" standard cup wheel best suited for high speed knives. 13. Olite bushing in idle pulley. Does not require oiling. 14. Knife carriage works automatically. 15. All gears are machine cut. 16. Handwheel with accurate degree gauge for setting knife plate from 0° to 60°.



SIDE HEAD GRINDER (101-A). 1. Head sleeves furnished to specification to mount side heads on index stand for grinding. 2. Accurate gauge for grinding knives in heads. 3. Standard brand ½ H.P., ball bearing, dust proof, single or 3 phase, 110, 220, or 440 volts, 60 cycle, 3600 R.P.M. motor. 4. Vertical adjusting handwheel with coarse screw threads for fast adjustment of table. 5. Horizontal handwheel for accurate feed of emery wheel to knives adjust headstock 4". 6. Large handwheel for easy operation of table. 7. Gauge for setting standard ¼" tongue and groove knives. 8. Head stand with degree gauge. Also swiveling adjustment insuring every angle possible for grinding heads. 9. Equipped with 6" saucer wheel best suited for high speed knives. 10. Grinds heads with knives up to 6" long and 8" in diameter. 11. Equipped with emery wheel guard to protect the operator. 12. Equipped with push button switch for motor.

Mechanical Feed for Speed, Efficiency, Safety

This machine equipped with mechanical feed has many advantages. Knives can be ground more quickly, saving time, labor and money. There is no need for an operator to make grinding adjustments and to stay with the machine. The safety stop causes the machine to cease feeding when the knives become ground. There is greater efficiency with the mechanical feed. No excess grinding of your knives gives them longer life. The mechanical feed moves the knives up to the grinding wheel as little as half the thickness of a cigarette paper on each stroke.

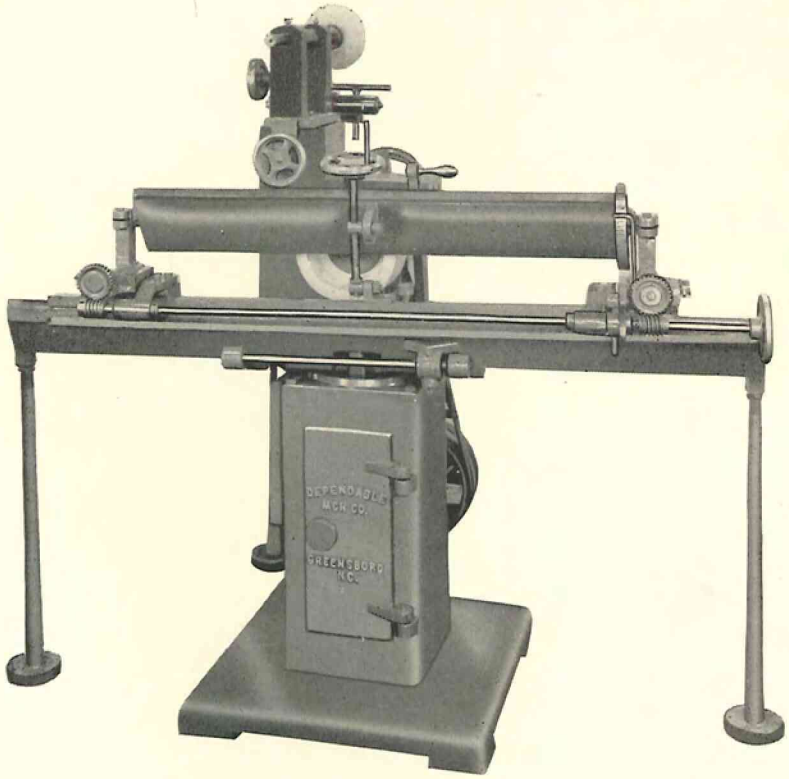
DEPENDABLE *Full Automatic* KNIFE *and* SIDE HEAD GRINDERS

Model Numbers:

105 30" Dependable Full Automatic, Combination Knife and Side Head Grinder, Belt Driven, Ball Bearing. Weight Crated 1300 lbs. Floor Space 6'x6'.

105-5 36" Dependable Full Automatic Combination, Knife and Side Head Grinder, Belt Driven, Ball Bearing. Weight Crated 1325 lbs. Floor Space 6'x6'.

These machines can be furnished with attachment Model No. G55 for "upside down grinding" or from point to heel. Page 18.



Belt Driven

Features

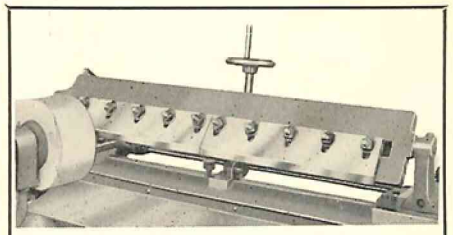
Here is a belt driven combination machine that will really do the work for a power driven plant. One machine that will grind your side-heads as well as your thick and thin straight knives. It is a labor saver. Saved labor is money in your pocket. We all wish to cut costs to ease the decreasing profits of today. Dependable Full Automatic Combination Knife Grinder can save you labor because it is FULLY AUTOMATIC, (except for the side head unit), with mechanized feed and equipped with safety stop. Clamp your knives on, adjust and your knives will be ground accurately and quickly. Your operator can be grinding your side heads while the other knives are grinding. These two machines are combined for economy of space and ease of operation. Each machine is operated separately. This is truly a "push-button" job with the following features:

MAIN GRINDER

1. Handwheel for fast accurate adjustment of knives to grinding wheel. 2. Knife plate has grooves and keys for accurate and easy setting of knives. 3. Heavy duty, standard brand, 1½ H.P., 60 cycle, single or 3 phase, 110, 220 or 440 volts, 1200 R.P.M., dust proof, ball bearing motor. 4. Automatic stop adjustment on mechanical feed. 5. Ratchet feeds .001 or more each travel of the knife carriage to the amount set by the operator, then automatically lifts pawl out of the ratchet feeds even at each end. 6. Push button switch furnished for motor. 7. Grinds thick and thin knives straight ground or hollow ground. 8. Operating speed of spindle on knife grinder is 1200 R.P.M.—the speed most suitable for high speed knives. 9. Steel cut rack operates with steel cut pinion gear, insuring a quiet running machine with long life. 10. Pressure grease cup in center of track where it is needed most. 11. New, improved dust pan prevents emery dust from wearing moving parts (Gives machine longer life.) 12. 8" standard cup wheel best suited for high speed knives. 13. Olite bushing in idle pulley. Does not require oiling. 14. Knife carriage works automatically. 15. Equipped with heavy duty ball bearings. 16. All gears are machine cut. 17. Handwheel with degree gauge from 0° to 60° for setting knife plate at different angles.

SIDE HEAD GRINDER

(101-A) 1. Head sleeves furnished to specifications to mount side heads on index stand for grinding. 2. Accurate gauge for grinding knives in heads. 3. Standard brand 1/3 H.P., ball bearing dust sealed, single or 3 phase, 110, 220 or 440 volts, 60 cycle, 3600 R.P.M. motor. 4. Vertical adjusting handwheel with coarse screw threads for fast adjustment of table. 5. Horizontal handwheel for accurate feed of emery wheel to knives adjusts headstock 4". 6. Large handwheel for easy operation of table. 7. Gauge for setting standard ¼" tongue and groove knives. 8. Head stand with degree gauge. Also swiveling adjustment insuring every angle possible for grinding heads. 9. Equipped with 6" saucer wheel best suited for high speed knives. 10. Grinds heads with knives up to 6" long and 8" in diameter. 11. Equipped with emery wheel guard to protect the operator. 12. Equipped with push button switch for motor. 13. Equipped with heavy duty ball bearings.



Grinds Thick and Thin Knives

MECHANICAL FEED FOR SPEED, EFFICIENCY, SAFETY

This machine equipped with mechanical feed has many advantages. Knives can be ground more quickly, saving time, labor and money. There is no need for an operator to make grinding adjustments and to stay with the machine. The safety stop causes the machine to cease feeding when the knives become ground. There is greater efficiency with the mechanical feed. No excess grinding of your knives gives them longer life. The mechanical feed moves the knives up to the grinding wheel as little as half the thickness of a cigarette paper on each stroke.

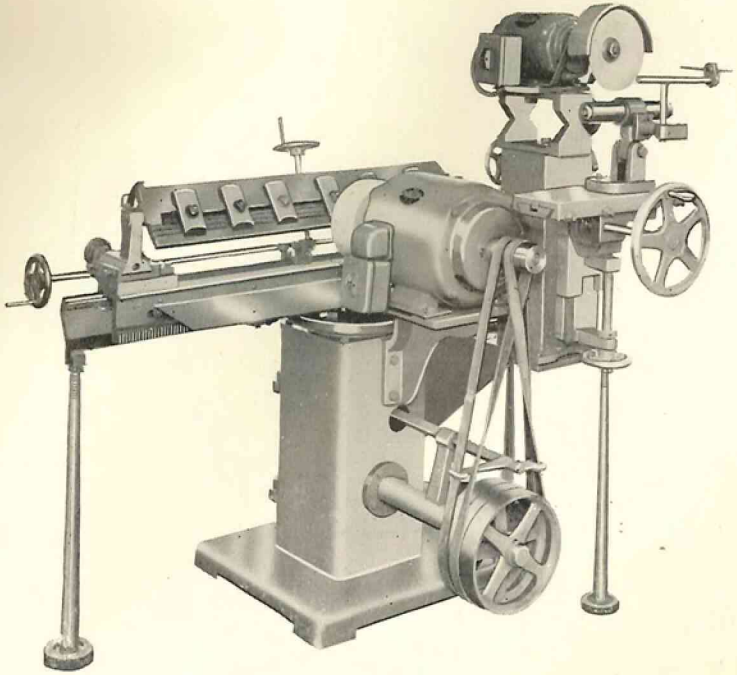
DEPENDABLE *Motor Driven* KNIFE *and* SIDE HEAD GRINDERS

Model Numbers:

100-A 36" Direct Motor Driven, Semi-automatic Knife and Sidehead Grinder. Equipped with 1½ H.P., Ball Bearing, Dust Proof, Standard Brand, 60 cycle, 1200 R.P.M., Single or 3 Phase, 110, 220, or 440 volts motor on main grinder. Same type motor on side head grinder with 3600 R.P.M. and ½ H.P. Weight 1375. Floor Space 6'x6'.

100-A1 30" Direct Motor Driven, Semi-automatic Knife and Sidehead Grinder. Equipped with 1½ H.P., Ball Bearing, Dust Proof, Standard Brand, 60 cycle, 1200 R.P.M., Single or 3 Phase, 110, 220 or 440 volts motor on main grinder. Same type motor on side head grinder with 3600 R. P. M. and 1/3 H.P. Weight crated 1400 lbs. Floor space 6'x6'.

Main grinder can be equipped with Attachment Model No. G 55 for "up-side down grinding" or from point to heel. Page 18.



Easy to Operate

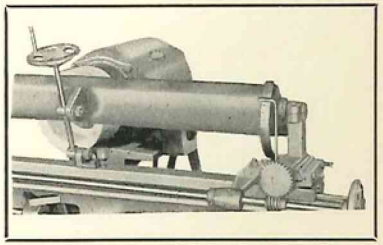
CHECKED YOUR OLD MACHINE LATELY?

Maybe you have an old machine that you admit has had it's day. It is shabby and worn from use. Any day may be it's last but you are trying to "get by" with it for a while longer. Or perhaps your old machine seemingly is doing alright, but have you checked the knives that have been ground on it? Most often these old worn machines are not grinding your knives straightly. Check your knives on a straight edge. You can't get quality lumber with poorly ground knives. Also your operator may be grinding your knives a second time in an attempt to get them straight. THIS IS COSTING YOU PLENTY! Have you checked your invoices on knives lately?

Maintenance cost is terrific on old, worn, babbitt bearing machines. Check up on all of these things and see if it wouldn't pay you to get a modern, ball bearing machine with all of the latest features. We believe it would. Be progressive, keep up to date and keep costs down and production high by keeping your knives properly sharpened at all times.

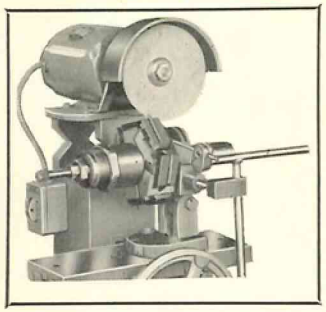
This combination consists of our regular semi-automatic, ball bearing knife grinder with direct motor drive and our (Model No. 101-A) ball bearing side head grinder with direct motor drive. These two machines are arranged to be very compact and not to interfere with each others operation. This is truly a great machine. It is the result of careful research and expert designing. Production methods guarantee a machine of top performance and utmost service. Put an end to your grinding problems by equipping your plant with this machine. One operator on our machine can now grind your side head knives as well as your thick or thin knives, straight ground or hollow ground.

ADJUSTABLE KNIFE PLATE



GRINDS THICK AND THIN KNIVES STRAIGHT GROUND OR HOLLOW GROUND

GRINDS SIDE HEADS



FEATURES OF MAIN GRINDER

Single handwheel for fast, accurate adjustment of knives to grinding wheel.

Operating speed of spindle on knife grinder is 1200 R.P.M.—the speed most suitable for high speed knives.

Handwheel for adjustment of knife plate from 0° to 60°.

Steel cut rack operates with steel cut pinion gear, insuring a quiet running machine with long life. All gears are machine cut.

Pressure grease cup in center of track insuring grease where it is needed most.

New, improved dust pan prevents emery dust from wearing moving parts. Gives machine longer life.

8" standard cup wheel best suited for high speed knives.

Olite bushing in idle pulley—does not require oiling.

Semi-automatic feed adjusted by hand. Knife carriage works automatically.

FEATURES OF SIDEHEAD GRINDER

Head sleeves furnished to specifications to mount side heads on index stand for grinding.

Vertical adjusting handwheel with coarse screws threads for fast adjustment of table.

Horizontal handwheel for accurate feed of emery wheel to knives adjusts headstock 4".

Large handwheel for easy operation of table.

Gauge for setting standard ¼" tongue and groove knives.

Head stand with degree gauge. Also swiveling adjustment insuring every angle possible.

Equipped with 6" saucer wheel best suited for high speed knives and with emery wheel guard to protect the operator.

Grinds heads with knives up to 6" long and 8" in diameter.

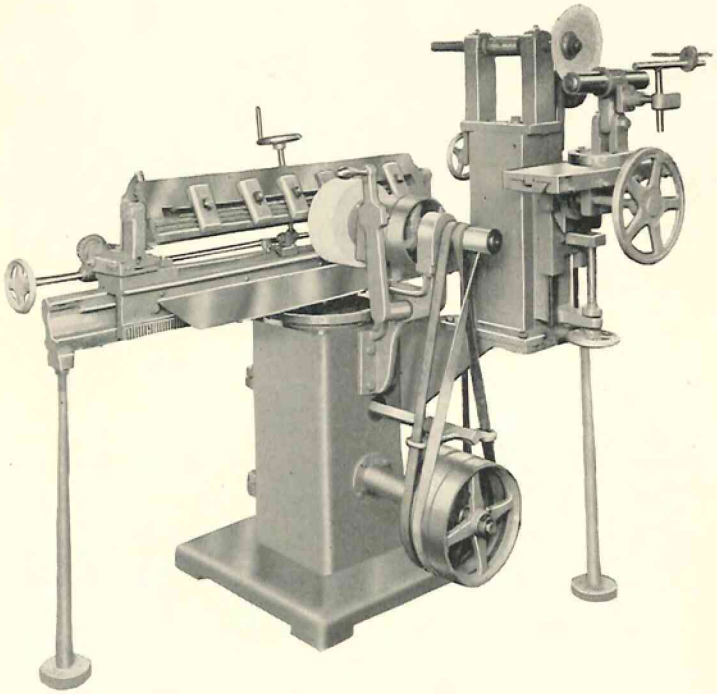
DEPENDABLE *Belt Driven* KNIFE *and* SIDE HEAD GRINDERS

Model Numbers:

100—30" Dependable Belt Driven, Semi-automatic, Combination Knife and Side Head Grinder. Weight crated 1275 lbs. Floor space 6'x6'.

100-1—36" Dependable Belt Driven, Semi-automatic, Combination Knife and Side Head Grinder. Weight crated 1300 lbs. Floor space 6'x6'.

Main grinder can be equipped with attachment Model No. G55 for "upside down grinding" or from point to heel. Page 18.



Ball Bearing ● Accurate

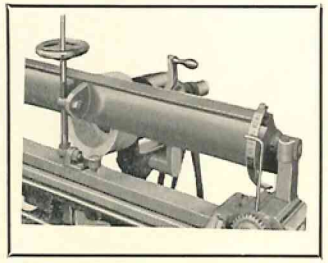
Cut Grinding Cost!

By equipping your plant with a combination ball bearing knife grinder. This machine is designed to take care of the grinding needs of the average plant. There will be huge savings by grinding your own knives. With your own knife grinder your machines will be out of operation for much less time. Keep production high by keeping your knives sharp at all times. This machine is designed for long life, and dependability. Half way around the world Dependable Grinders, for years, have been meeting the needs of planer mills, lumber companies, saw mills, furniture factories and the woodworking industry in general.

It is dangerous to your operator to run a machine with dull knives. We quote from "Machine Woodworking" by Herman Hjarth, page 347: "The long knives used on jointers, planers and shapers must be ground and whetted regularly in order to produce first class work. Another important consideration is the safety of the operator, for it is dangerous to run a machine with dull cutters."

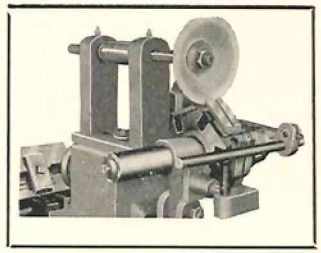
This combination consists of our regular semi-automatic, ball bearing knife grinder with belt drive and our (Model No. 101) ball bearing side head grinder with belt drive. These two machines are arranged to be very compact and not to interfere with each others operation. This is truly a great machine. It is the result of careful research and expert designing. Production methods guarantee a machine of top performance and utmost service. Put an end to your grinding problems by equipping your plant with this machine. One operator on our machine can now grind your side head knives as well as your thick and thin knives, straight ground or hollow ground.

ADJUSTABLE KNIFE PLATE



GRINDS THICK AND THIN KNIVES STRAIGHT GROUND OR HOLLOW GROUND

GRINDS SIDE HEADS



FEATURES OF MAIN GRINDER

Single handwheel for fast, accurate adjustment of knives to grinding wheel.

Operating speed of spindle on knife grinder is 1200 R.P.M. —the speed most suitable for high speed knives.

Steel cut rack operates with steel cut pinion gear, insuring a quiet running machine with long life. All gears are machine cut.

Handwheel for adjustment of knife plate from 0° to 60°.

Pressure grease cup in center of track insuring a quiet running machine with long life.

New, improved dust pan prevents emery dust from wearing moving parts. Gives machine longer life.

8" standard cup wheel best suited for high speed knives.

Olite bushing in idle pulley—does not require oiling.

Semi-automatic feed adjusted by hand. Knife carriage works automatically.

FEATURES OF SIDEHEAD GRINDER

Head sleeves furnished to specifications to mount side heads on index stand for grinding.

Vertical adjusting handwheel with coarse screw threads for fast adjustment of table.

Horizontal handwheel for accurate feed of emery wheel to knives adjusts headstock 4".

Large handwheel for easy operation of table.

Gauge for setting standard ¼" tongue and groove knives.

Head stand with degree gauge, also swiveling adjustment insuring every angle possible.

Equipped with 6" saucer wheel best suited for high speed knives and with emery wheel guard to protect the operator.

Grinds heads with knives up to 6" long and 8" in diameter.

DEPENDABLE SIDE HEAD GRINDERS

Model Numbers:

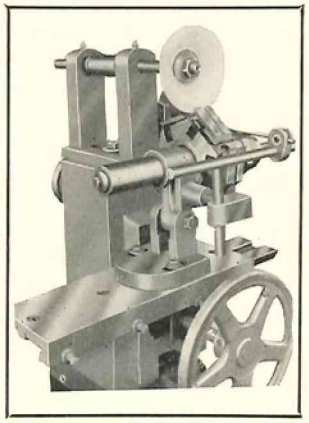
101 Belt Driven, Ball Bearing, Side Head Grinder. Weight Crated 400 lbs. Floor Space 3'x3'. Height 4'7".

101-A Direct Motor Driven, Ball Bearing Side Head Grinder with Standard Brand ½ H.P., Single or 3 Phase (optional), 110, 220 or 440 Volts, 60 Cycle, 3600 R.P.M., Dust Proof, Ball Bearing Motor. Weight Crated 450 lbs. Floor Space 3'x3'. Height 4'x9". Equipped with push button switch.

Increase Your Profits

By keeping your side head knives sharp and in good condition at all times. You will save money on production costs by keeping your knives sharp. Your machine will run more smoothly and have less wear if you keep your side head knives sharp. It will also help you get the high quality lumber that you must have today. Why try to get by with hand filing when you can get a quality machine for such a low price? The labor you save will more than pay for your machine.

Grinds All Make Heads



This machine will grind heads with knives up to 6" long and 8" in diameter. It will grind Jones-Orth, Shimer, Yates, Woods, Diston and other make heads. You can get any angle grind wanted on the knives by means of the swiveling adjustment.

Insert Shows Model 101

FULLY EQUIPPED

Operating speed of spindle on grinder is 3600 R.P.M.

Horizontal handwheel for accurate feed of emery wheel to knives adjusts headstock 4".

Gauge for setting standard ¼" tongue and groove knives.

Large handwheel for easy operation of table.

Vertical adjusting hand wheel with coarse-screw threads for fast vertical adjustment of table up to 6".

Head stand with degree gauge. Also swiveling adjustment insuring every angle possible for grinding heads.

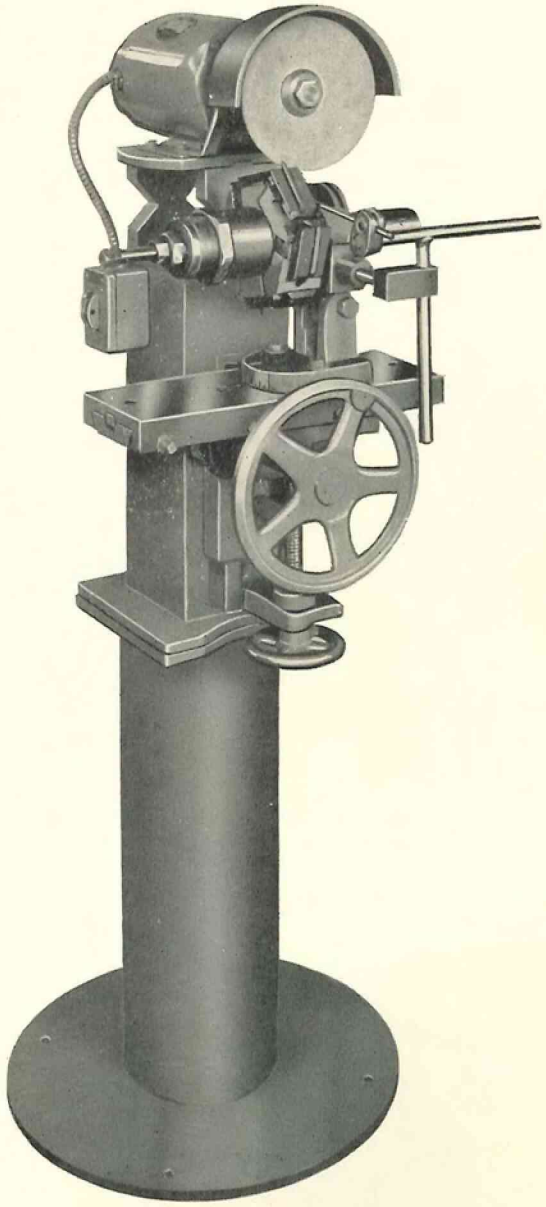
Dust sealed Fafnir self-aligning ball bearings.

Head sleeves furnished to specifications for mounting heads on index stand for grinding.

Equipped with 6" saucer wheel best suited for high speed knives.

Cast Iron frame with steel wide flanged base makes it very rugged and eliminates vibration.

BALL BEARING



The 101-A

The Best Machine on the Market at the Price!

DEPENDABLE NO. 102-A UNIVERSAL SIDE HEAD GRINDER

Saves Time

All adjustments are made from the front of the machine, enabling the operator to make quick set ups. The motor is mounted so that it will make a complete circle, thus giving adjustments to any position desired. (360° adjustments.)

This machine is designed to take care of the small and medium size plants that have both molder heads and side heads to grind. Plants that want a good accurate machine at an economical price.

LARGE HANDWHEEL. Operates large gear rack gear insuring easy travel of head on table. The headstand travels a full 12¼". This will enable the operator to sharpen heads with 12" knives.

VERTICAL ADJUSTING HANDWHEEL. With coarse threads on the screws for fast vertical adjustments of the table up to 6".

MOTOR. Equipped with standard brand ½ H.P., Single or 3 Phase, 110, 220 or 440 Volts, 60 Cycle, 3600 R.P.M., Ball Bearing, Dust Proof Motor. Equipped with push button switch.

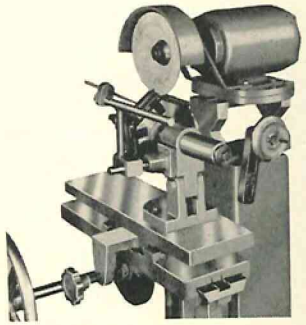
TABLE. Is 20" long. It travels on dovetailed ways scraped to perfect bearing and gibbed for accurate and rigid performance.

CROSS FEED. On table of 3" by handwheel located to the right inside of the table operating handwheel. This operates on dovetailed ways scraped to perfect bearing and gibbed for accurate and rigid performance. This cross feed is for feeding knives to emery wheel. Easy to operate.

EQUIPMENT. 7" saucer wheel and 7" straight wheel for different types of grinding. Has grinding wheel guard for the protection of the operator. Furnished with gauge for setting standard ¼" tongue and groove knives.

SPECIFICATIONS. Weight crated 525 lbs. Floor space 3'x3'; Height 4'9".

GRINDS ACCURATELY. Side heads, molder heads, and profiler heads with knives up to 12¼" long and up to 8" in diameter.

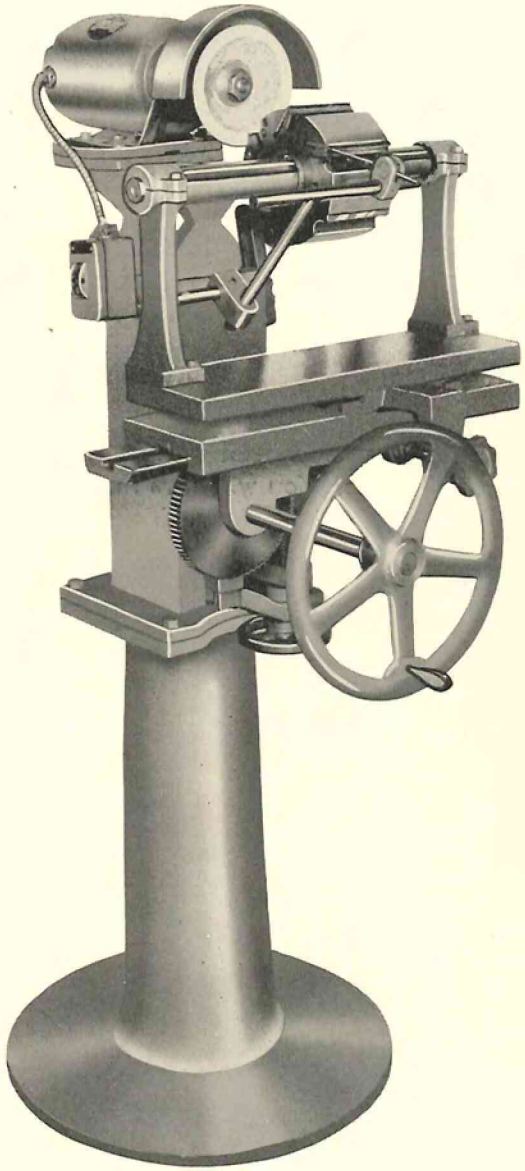


SHOWS SIDEHEAD ATTACHMENT

SIDE HEAD ATTACHMENT. With degree gauge for grinding all makes side heads up to 8" in diameter and with knives up to 12" long. This attachment has swiveling adjustment insuring every angle possible for grinding heads.

SPINDLE SPEED. Operating speed of spindle is 3600 R.P.M. This high speed will give smooth grinding.

STEEL BASE. Heavy cast iron frame with wide flanged steel base makes it very rugged and eliminates vibration.



The 102-A

SHOWING MOLDER HEAD STAND

DEPENDABLE NO. 103-A

IMPROVED UNIVERSAL BALL-BEARING HEAD GRINDER

FEATURES:

FULL UNIVERSAL. This machine is completely streamlined up to the latest in modern design. A machine that up to date plants will be proud to own.

FULL UNIVERSAL Permitting all angle cuts to be made by single adjustments, 360 degrees.

CONSTRUCTION All machined parts are held to close tolerance and well put together to assure maximum operating efficiency. All rotating parts are dynamically balanced. The best materials available are used in manufacturing this machine. Made of good gray cast iron with welded steel frame with flanged base makes it very rugged and eliminates vibration.

MOTOR DRIVEN Furnished with standard brand, ¾ H.P., Ball Bearing, 3600 R.P.M., Dust Proof, 60 Cycle, Single or 3 Phase (optional) 110, 220 or 440 volts motor.

SPECIFICATIONS Motor has horizontal travel of 6" and 8" vertical travel. Table travels full 18" on two Vee tracks with ball bearing adjustment, insuring easy travel and it is very rigid. Weight crated 875 lbs. Floor space 6'x4'. Height 5'2".

EASY ADJUSTMENT Of grinding base assembly by means of large handwheel conveniently located in front of the machine. Positive gear action inside machine. Raise of grinding base assembly 8".

HANDWHEEL Operates grinding base assembly which has horizontal adjustment of 6" for adjusting grinding wheel to work. Base travels in dovetailed ways scraped to perfect bearing and gibbed for accurate and rigid performance.

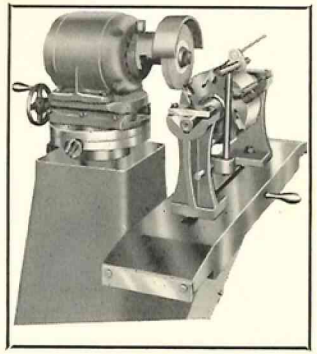
COMPLETELY EQUIPPED Furnished with three wheels suitable for different types of grinding. A 6" straight wheel, 6" saucer wheel, and a 5" cup wheel. Equipped with push button switch for motor.

SPINDLE SPEED Operating speed of spindle is 3600 R.P.M. This high speed will give smooth grinding.

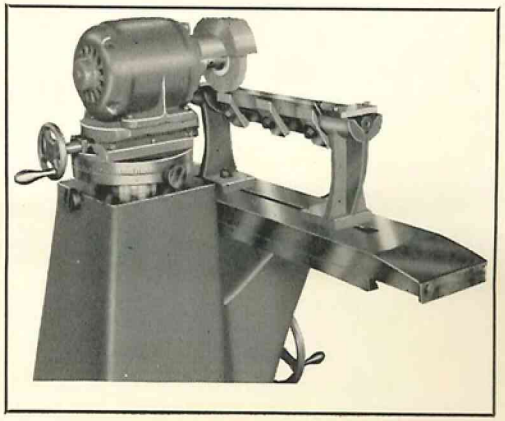
MOLDER AND PROFILER HEAD ATTACHMENT Consisting of Vee blocks stands and arbor for grinding molder and profiler knives up to 15" long in the head, and up to 10" in diameter.

STRAIGHT KNIFE ATTACHMENT Knife plate works in Vee blocks stands for grinding all types of straight knives. This is very rigid. Grinds thick and thin knives up to 15" long.

SIDE HEAD ATTACHMENT All universal side head stand is furnished for grinding all types of side heads up to 10" in diameter. This is equipped with degree gauge.

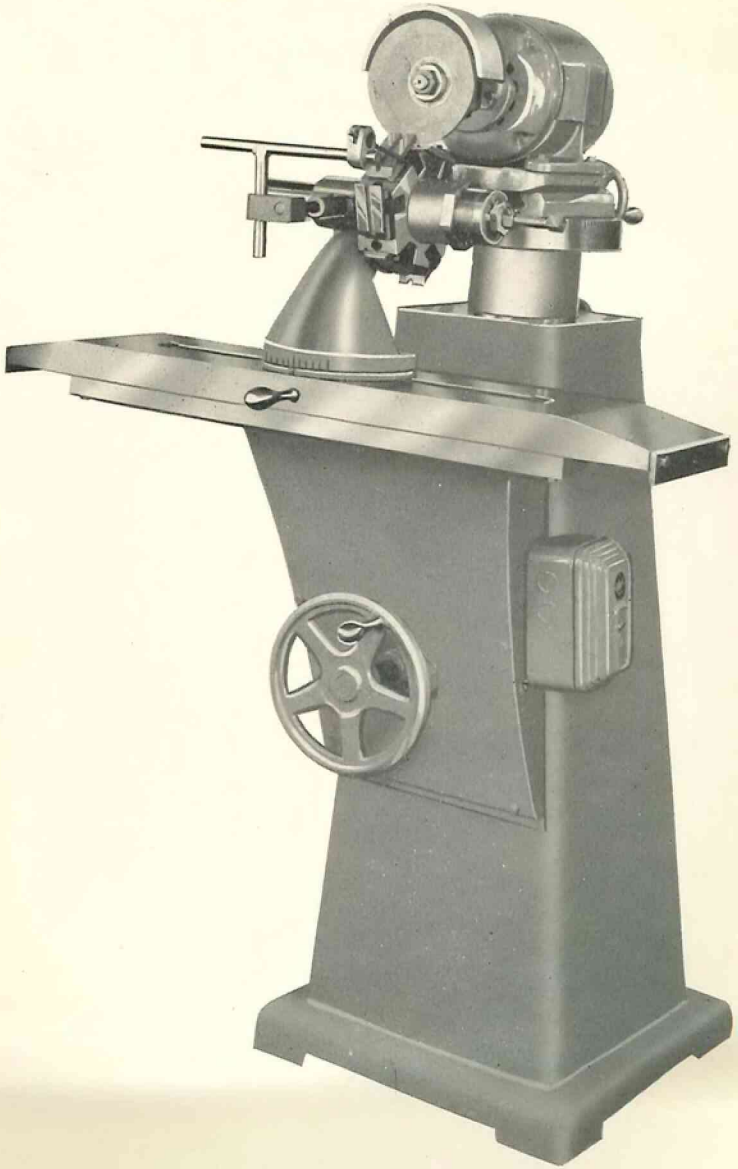


Molder Head Attachment



Straight Knife Attachment

BALL-BEARING TABLE



The 103-A

SHOWING SIDE HEAD ATTACHMENT

DEPENDABLE UNIVERSAL

The Latest in Modern Grinding Equipment

Design

A machine of latest design for speed and accuracy in grinding side-heads, molder, and profiler heads, thick and thin knives and for sharpening saws.

Head

Machine has turret type head with 360° adjustment—makes possible any angle grind on your side head knives. Motor head slides on gibbed dovetailed ways scraped to perfect bearing.

Head Adjustment

Adjustment lock for fast adjustment of grinding wheel to work. Head has 6" lateral travel. Slow adjustment handwheel for fine adjustment of grinding wheel to knives and for feed.

Motor

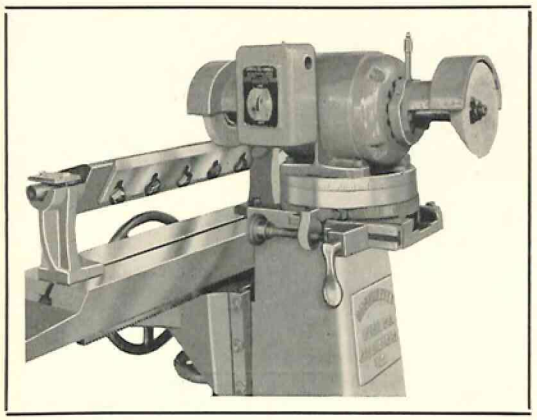
Double spindle, ball bearing, dust sealed, single or 3 phase, 110, 220 or 440 volts, 60 cycle, 3450 R.P.M., ¾ H.P. motor equipped with push button switch.

Table

Has 24" travel on gear rack which makes it positive, yet allows for easy operation. Large handwheel makes table easy to operate. The vertical adjustment is 9" by means of handwheel—easy to operate because of ACME threads—four per inch. Table is gibbed for rigid and accurate performance.

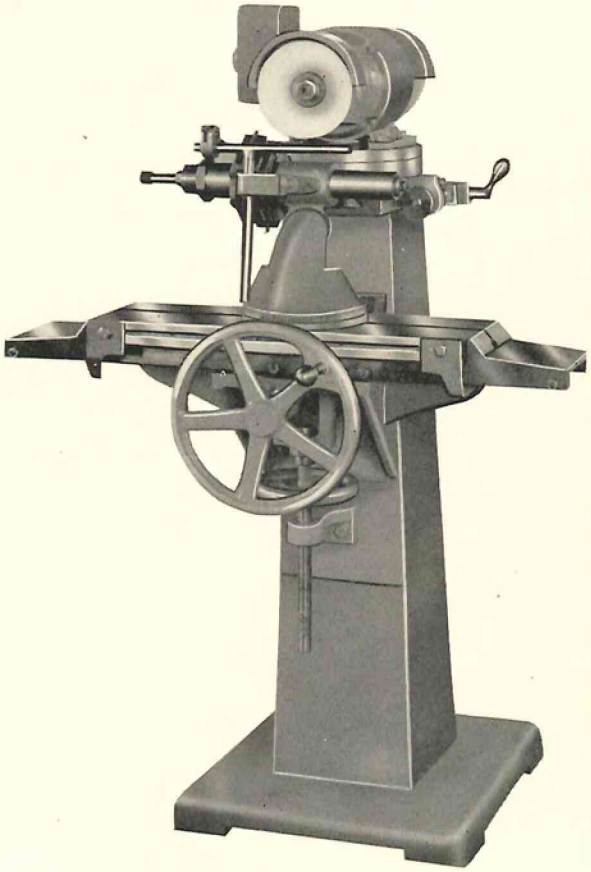
Frame

Heavy duty, welded, all steel frame, with a broad flanged base, insuring rigidity and eliminating vibration.



Grinds Straight Knives

This machine has proven itself in the field to be very versatile. We have had nothing but high praise from our customers. This machine has many great features all of its own. For those who want the best we highly recommend this machine.



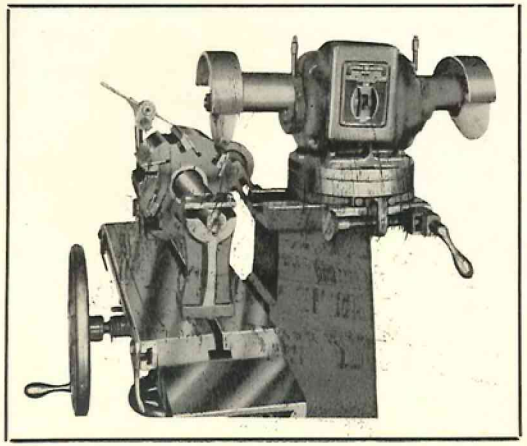
The 104-A

Showing Setup for Grinding Side Heads

HEAD GRINDER No. 104-A

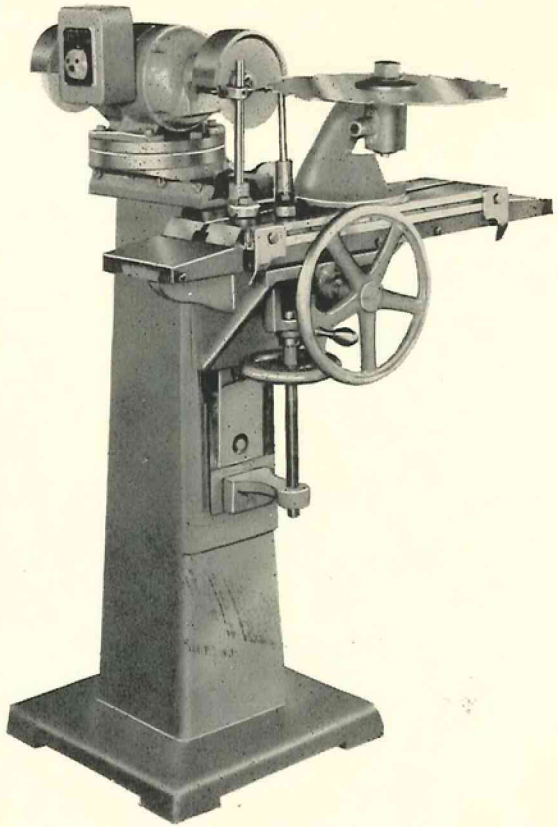
Compare the Following Features

Straight Knife Attachment	Furnished with a Vee type knife plate which works in Vee block stands. Grinds thick or thin knives up to 20" long.
Side Head Attachment	Regularly equipped with index stand for grinding all makes of side heads up to 10" in diameter. Does precision work—grinds any angle.
Saw Grinding Attachment	Can be furnished with saw grinding attachment No. G 22 for sharpening saws up to 20" in diameter.
Vonnagut Molder Attachment	Can be furnished with attachment Model No. G44 for grinding Vonnagut molder heads with bearings intact. Page 18.
Molder & Profiler Attachment	Regularly equipped with round arbor made to specification for grinding round heads, molder heads, and profiler heads up to 10" in diameter with knives up to 15" long. Works on Vee block stands.
Standard Equipment	Regularly equipped with side head grinding attachment straight knife grinding attachment and the molder and profiler grinding attachment.
Special Equipment	Can be furnished, extra, with saw sharpening attachment and Vonnagut molder attachment.
Specifications	Weight crated, 600 lbs., with standard equipment. Floor space 4'x3'. Height 4'8".



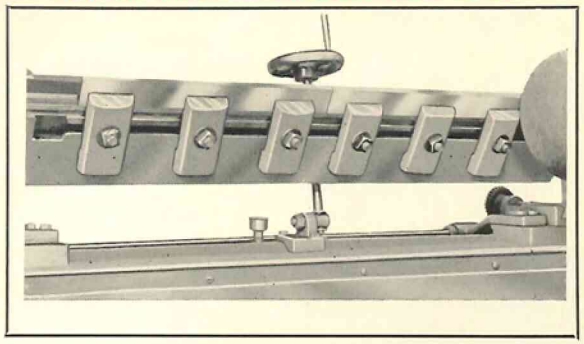
Grinds Molder and Profiler Heads

No. 104-A with Saw Sharpener



By means of attachment No. G22, you have a saw grinder capable of grinding saws up to 20" in diameter of Carbide or High Speed Steel. This feature gives you the adantage of two machines for the price of one.

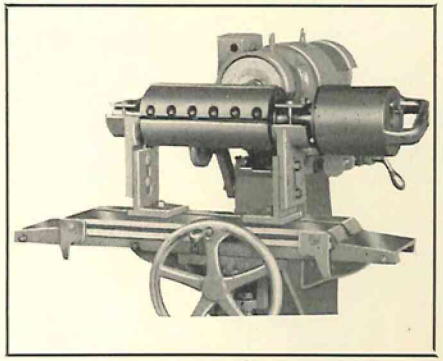
ATTACHMENT MODEL NO. G 55



FOR UPSIDE DOWN GRINDING

This attachment can be ordered for either the semi-automatic or the full automatic knife grinders either 30" or 36" models as optional equipment. Machines CANNOT be equipped with both type knife carriages. This new feature keeps the knife from heating too much on the point, and also eliminates the burr sometimes found on the point of the knife after grinding. Plate has grooves and keys for easy and accurate setting of knives.

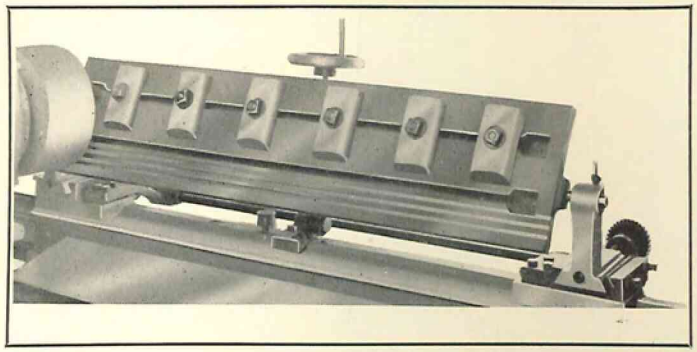
ATTACHMENT MODEL NO. G 44



FOR VONNAGUT MOLDER HEADS

This special attachment enables you to grind Vonnagut molder heads, with bearings intact, saving you considerable time. This gives you a perfect grind.

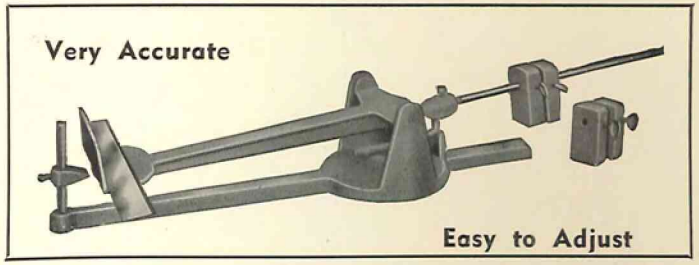
ATTACHMENT MODEL NO. G 33



FOR GRINDING HOG KNIVES

This attachment can be ordered for either the semi-automatic or the full automatic knife grinders both 30" and 36" models, in place of the standard plate, as extra equipment. These wide double slotted plates allow your operator to grind both Hog knives and regular thick and thin straight knives. They can be straight ground or hollow ground.

DEPENDABLE BALANCING WAYS



FOR BALANCING YOUR KNIVES

When grinding knives that have been removed for the cutterhead, it is very important to grind off an equal amount of material from every knife so that they will all weigh alike. If of different weights, the cutterhead will vibrate and produce an uneven cut. It, therefore, is necessary to weigh each knife carefully on a scale before whetting it.

The Dependable Balancing Way is simple and inexpensive. It has needle point adjustment allowing operator to make an accurate balance with greatest of ease.

Dependable

GANG RIP SAWS

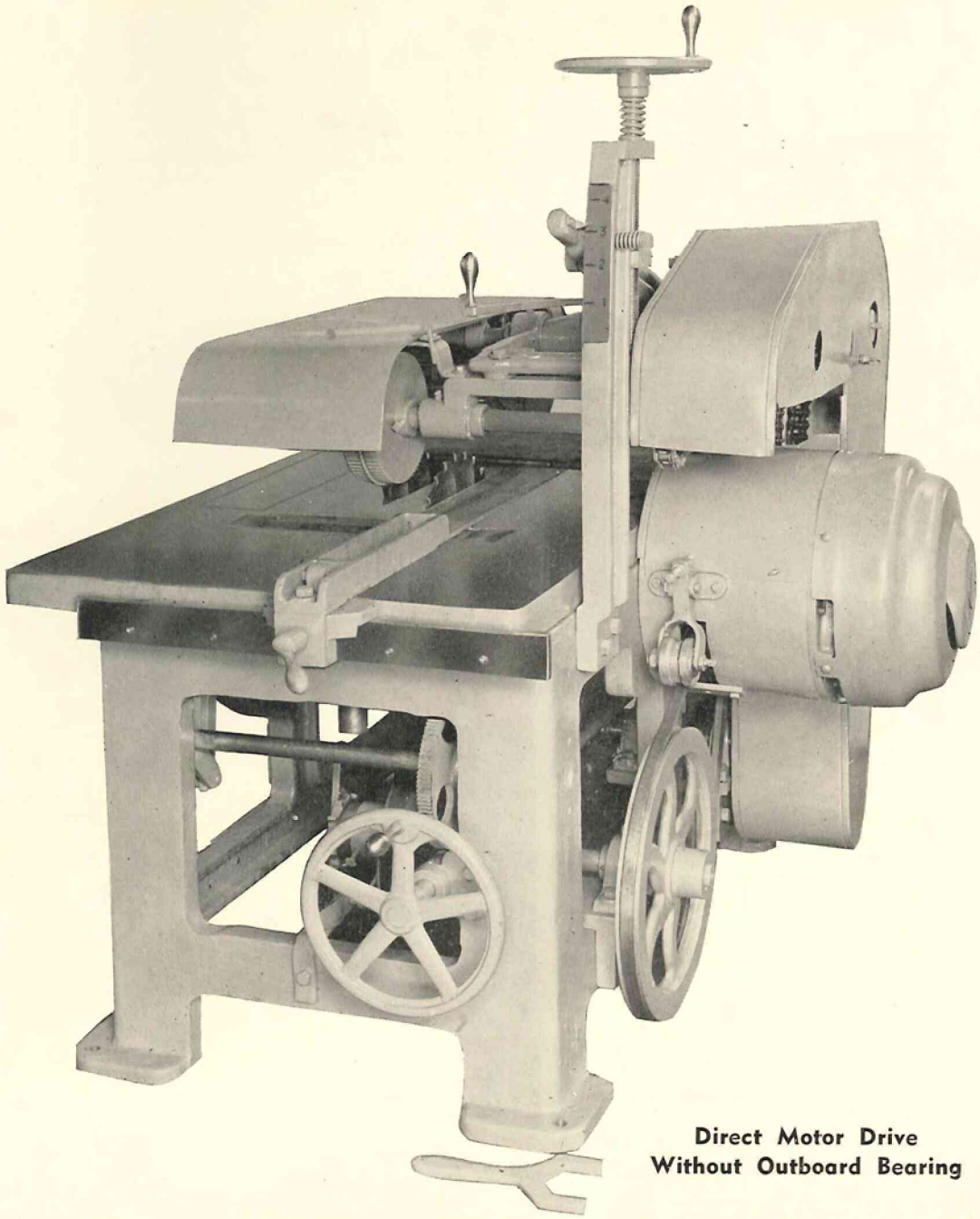
FOUR MODELS TO CHOOSE FROM

QUALITY AND SERVICE

DEPENDABLE *Direct Motor Drive* GANG RIP SAW

Heavy Duty

Ball-Bearing



Direct Motor Drive
Without Outboard Bearing

Spur Feed

Self-Feed

MODEL No. 112

DESIGNED FOR SPEED AND ACCURACY

Design

The No. 112 Self-Feed Rip Saw is designed for speed and accuracy in ripping material into parallel strips in planing mills, furniture or woodworking plants of any kind that require a strictly high class Rip Saw. Designed for single or gang ripping.

Sturdy Construction

The frame is of one piece construction, heavily ribbed to take care of the most severe strains. It is made of the best grade gray iron. Designed heavy to eliminate vibration.

Easy Change of Saws

Made possible because of the design without outboard bearings. Saws can be changed in a matter of seconds by raising the table and unscrewing the large nut on the end of the mandrel. Another, still quicker, way is to unscrew two wing nuts, fastening steel plate to table, remove steel plate and then unscrew large nut on mandrel and remove saws.

Instant Control of Feed

By use of a clutch and lever arrangement. Feed consists of a power driven corrugated 8½" roller with spur center which travels in line with the first saw. The out-feed roller is a power driven heavy, steel, fluted roller 10"x8½". Feed mechanism is controlled by raising and lowering handwheel and screw with spring tension, for accommodating various thicknesses of stock. Has two 14" adjustable bottom rollers.

Four Speeds

Made possible by a four step cone pulley equipped with Vee belt drive. Speeds are 50, 85, 120, 150 feet per minute.

Safety Features

Has spur roller in front of machine to resist the lumber from kicking back. Equipped with six safety fingers to prevent the lumber from kicking back. All sprockets are properly hooded. Has planer type "give" on feed mechanism to take stock of uneven thickness without damage to machine.

Capacity

Will saw through 3" stock with 14" saws and through 4" stock with 16" saws. It has six inches of saw space on the mandrel. This accommodates approximately three saws more if ripping real narrow stock. Furnished with different size saw collars for gang ripping. Will rip lumber from 30" long to 20 feet long.

Saw Arbor

Is of best grade of spindle steel, being 2-3/16" in diameter where bearings and pulleys are applied and 2" where saws and saw collars work. It is equipped with heavy duty Fafnir ball bearings and the bearing housing is tongued into the frame, making a very rigid installation. Saw arbor speed is 1800 R.P.M.

Table

Is of extra heavy construction, well ribbed for strength. Size of the table is 32" wide x 56" long, full standard size, and having an adjustable lumber guide with eccentric lever lock on graduated rule to 15" wide. Guide can be adjusted in 1 to 2 seconds. Extension for table can be added if desired. Table is raised by segment worm drive, insuring positive and easy raising of table by means of large handwheel in front of the machine conveniently located for the operator.

Drive

Direct motor drive with a 10 H.P., 3 phase, 220, 440 volt, 60 cycle, 1800 R.P.M., Ball Bearing, Dust Sealed motor for heavy duty. Machine cut sprockets are driven by heavy duty No. 80 roller chain.

Equipment

Equipped with two 14" Simonds Circular Rip Saws, dust hood, spacing collars from ⅜" to 4" inclusive, and Vee belts. Equipped with wrench for mandrel. Weight crated 2500 lbs.

Special Guide and Table

A special guide (attachment R-10) and a special table (attachment R-11) have been designed for use with this Rip Saw for selective ripping. It saves time because the operator can set the guide while standing back at end of board to be ripped. Complete information on Page 26 of this catalog.

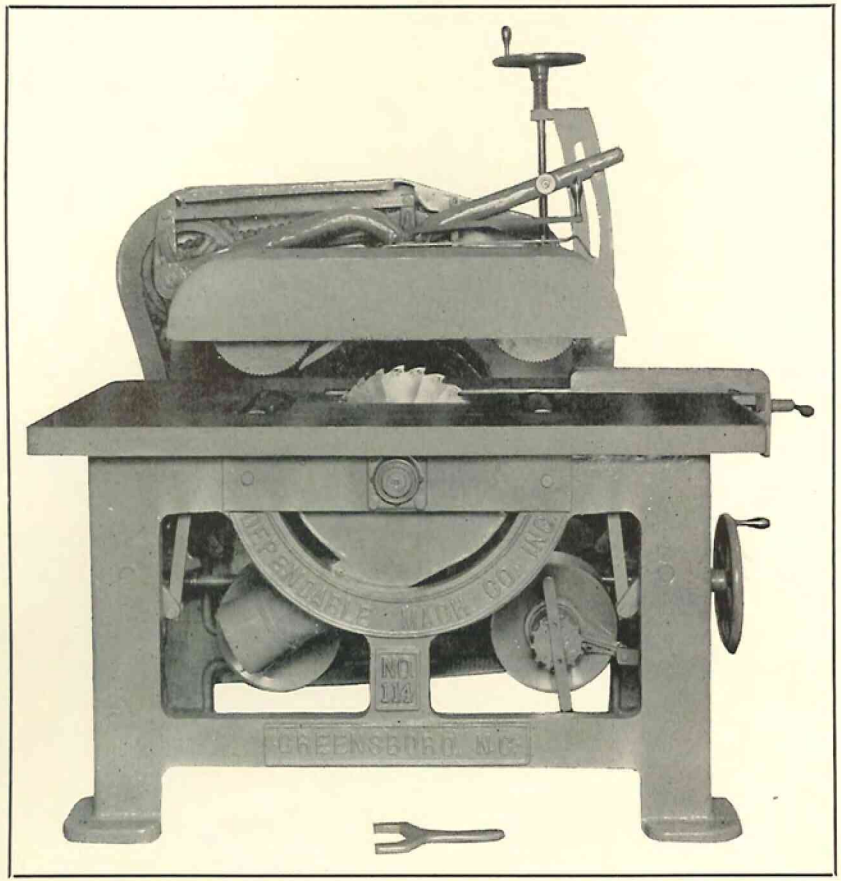
DEPENDABLE GANG RIP SAW MODEL No. 114

DESIGN. The No. 114 Self-Feed Rip Saw is designed for speed and accuracy in ripping material into parallel strips in planing mills, furniture or woodworking plants of any kind that require a strictly high class rip saw. Designed for single or gang ripping.

STURDY CONSTRUCTION. The frame is of one piece construction, heavily ribbed to take care of the most severe strains. It is made of the best grade gray iron. Designed heavy to eliminate vibration.

EASY CHANGE OF SAWS. Made possible because of the simple design of the outboard bearing. To change saws remove set screw and take off eccentric collar on outside of bearing on end of shaft, remove two bolts in plate, take off plate and remove saws.

FOR GOOD PRODUCTION



Direct Motor Drive with Outboard Bearing

INSTANT CONTROL OF FEED. By use of a clutch and lever arrangement. Feed consists of a power driven corrugated 8½" roller with spur center which travels in line with the first saw. The out-feed roller is a power driven, heavy, steel, fluted roller 10"x8½". Feed mechanism is controlled by raising and lowering handwheel and screw with spring tension, for accommodating various thicknesses of stock. Has two 14" adjustable bottom rollers.

FOUR SPEEDS. Made possible by a four step cone pulley equipped with Vee belt drive. Speeds are 50, 85, 120, 150, feet per minute.

SAFETY FEATURES. Has spur roller in front of machine to resist the lumber from kicking back. Equipped with six safety fingers to prevent the lumber from kicking back. All sprockets are properly hooded. Has planer type "give" on feed mechanism to take stock of uneven thickness without damage to machine.

CAPACITY. Will saw through 3" stock with 14" saws and through 4" stock with 16" saws. It has twelve inches of saw space on the mandrel. This accommodates approximately five saws—more if ripping real narrow stock. Furnished with different size saw collars for gang ripping. Will rip lumber from 30" long to 20 feet long.

SAW ARBOR. Is of best grade of spindle steel, being 2-3/16" in diameter where bearings and pulleys are applied and 2" where saws and saw collars work. It is equipped with heavy duty Fafnir ball bearings and the bearing housing is tongued into the frame, making a very rigid installation. Saw arbor speed is 1800 R.P.M.

TABLE. Is of extra heavy construction, well ribbed for strength. Size of the table is 32"x56" long, full standard size, and having an adjustable lumber guide with eccentric lever lock on graduated rule to 15" wide. Guide can be adjusted in 1 to 2 seconds. Extension for table can be added if desired. Table is raised by segment worm drive, insuring positive and easy raising of table by means of large handwheel in front of the machine conveniently located for the operator.

DRIVE. Direct motor drive with 10 H.P., 3 phase, 220, 440 volt, 60 cycle, 1800 R.P.M., dust sealed, ball bearing, heavy duty motor. Machine cut sprockets are driven by heavy duty No. 80 roller chain.

EQUIPMENT. Equipped with two 14" Simonds Circular Rip Saws, dust hood, spacing collars from ⅜" to 4", inclusive, and Vee belts. Equipped with wrench for mandrel. Weight crated 2500 lbs.

Special Guide & Table A special guide (attachment R-10) and a special table (attachment R-11) have been designed for use with this Rip Saw for selective ripping. It saves time because the operator can set the guide while standing back at end of board to be ripped. Complete information on Page 26 of this catalog.

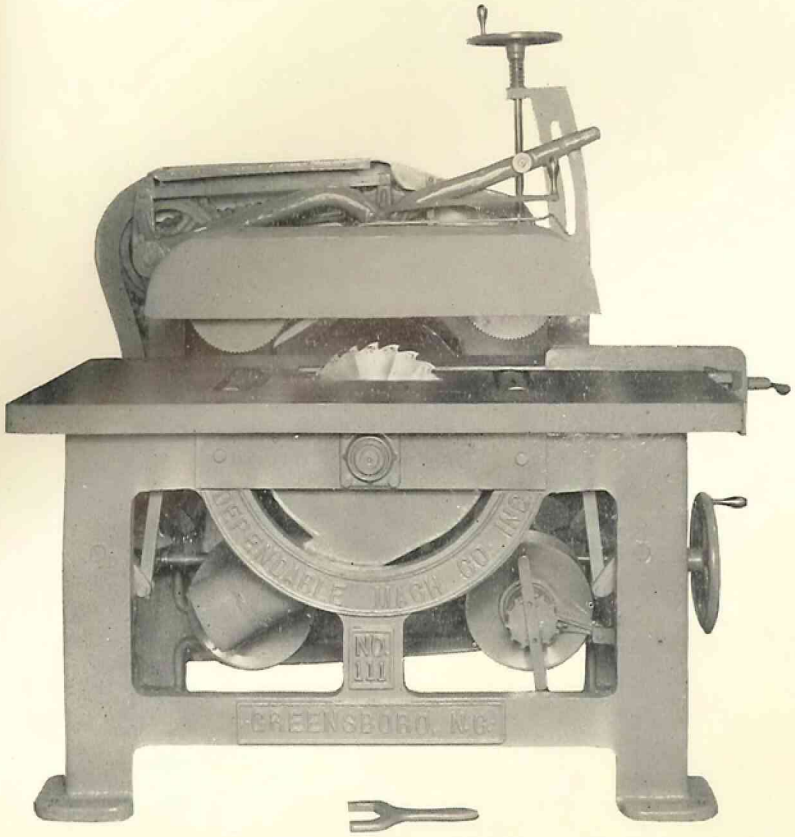
DEPENDABLE GANG RIP SAW MODEL No. 111

DESIGN. The No. 111 Self-Feed Rip Saw is designed for the plant that is operated by a single power unit or one that needs up to 25 H.P. Vee belt drive to have sufficient power for ripping material into parallel strips, in planing mills, furniture or woodworking plants of any kind that require a strictly high class rip saw. Designed for single or gang ripping.

STURDY CONSTRUCTION. The frame is of one piece construction heavily ribbed to take care of the most severe strains. It is made of the best grade gray iron. Designed heavy to eliminate vibration.

EASY CHANGE OF SAWS. Made possible because of the design of the outboard bearing. To change saws remove set screw and take off eccentric collar on outside of bearing on end of shaft, remove two bolts in plate, take off plate and remove saws.

DESIGNED FOR SPEED AND ACCURACY



V-Belt or Flat Belt Drive with Outboard Bearing

INSTANT CONTROL OF FEED. By use of a clutch and lever arrangement. Feed consists of a power driven corrugated 8½" roller with spur center which travels in line with the first saw. The out-feed roller is a power driven, heavy, steel, fluted roller 10"x8½". Feed mechanism is controlled by raising and lowering handwheel and screw with spring tension, for accommodating various thicknesses of stock. Has two 14" adjustable bottom rollers.

FOUR SPEEDS. Made possible by a four step cone pulley equipped with Vee belt drive. Speeds are 50, 85, 120, 150 feet per minute.

SAFETY FEATURES. Has spur roller in front of machine to resist the lumber from kicking back. Equipped with six safety fingers to prevent the lumber from kicking back. All sprockets are properly hooded. Has planer type "give" on feed mechanism to take stock of uneven thickness without damage to machine.

CAPACITY. Will saw through 3" stock with 14" saws and through 4" stock with 16" saws. It has twelve inches of saw space on the mandrel. This accommodates approximately five saws—more if ripping real narrow stock. Furnished with different size collars for gang ripping. Will rip lumber from 30" long to 20 feet long.

SAW ARBOR. Is of best grade of spindle steel, being 2-3/16" in diameter where bearings and pulleys are applied and 2" where saws and saw collars work. It is equipped with heavy duty Fafnir ball bearings and the bearing housing is tongued into the frame, making a very rigid installation. Saw arbor speed is 2400 R.P.M.

TABLE. Is of extra heavy construction, well ribbed for strength. Size of the table is 32" wide x 56" long, full standard size, and having an adjustable lumber guide with eccentric lever lock on graduated rule to 15" wide. Guide can be adjusted in 1 to 2 seconds. Extension for table can be added if desired. Table is raised by segment worm drive, insuring positive and easy raising of table by means of large handwheel in front of the machine conveniently located for the operator.

DRIVE. V-belt or flat belt drive with 10 to 25 H.P. needed. Speed of power unit is regularly 1800 R.P.M. but this can be regulated by different size pulleys to give the machine 2400 R.P.M. Machine cut sprockets are driven by heavy duty No. 80 roller chain.

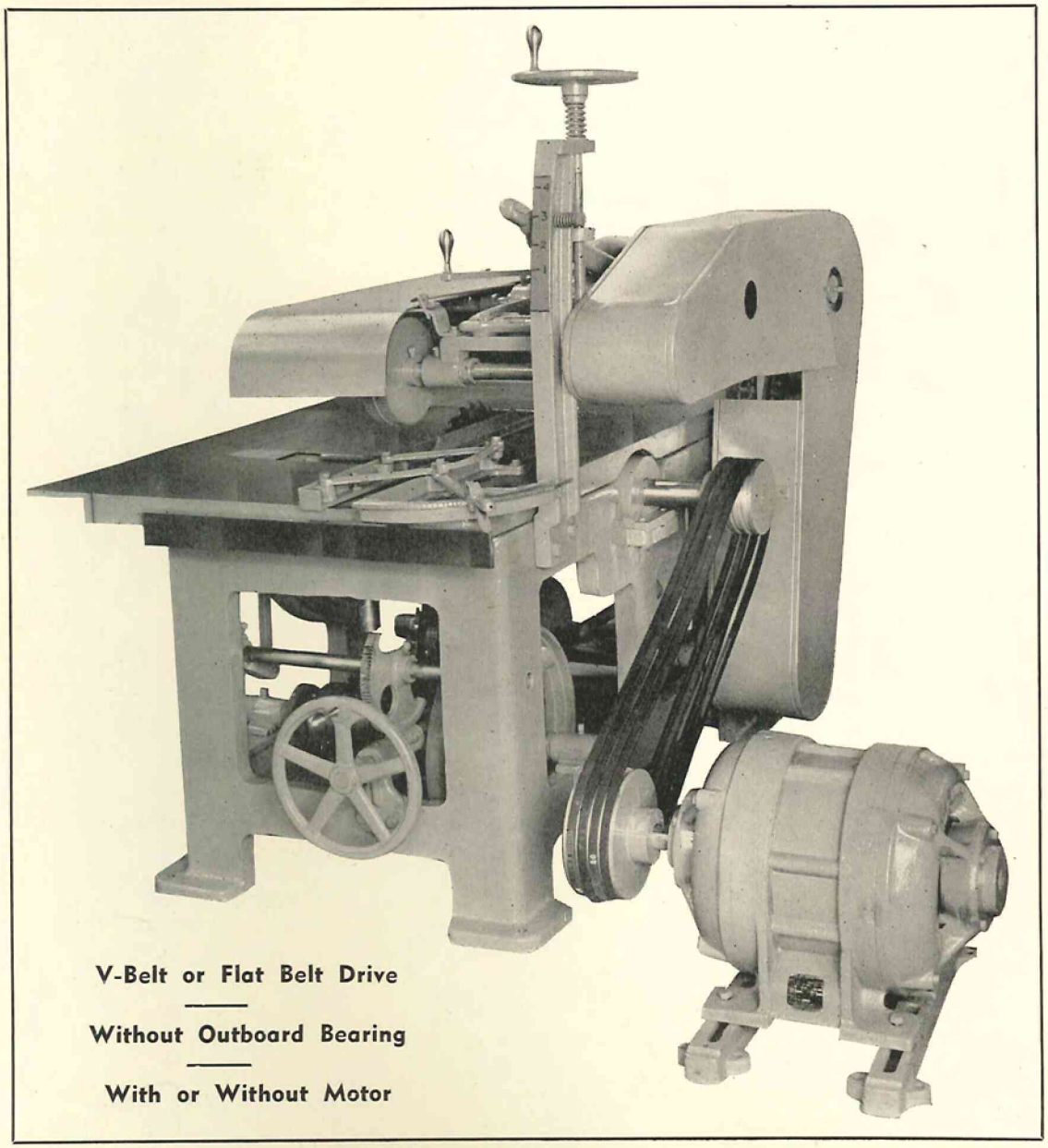
EQUIPMENT. Equipped with two 14" Simonds saws, dust hood, spacing collars from 3/8" to 4", inclusive, and Vee belts for speed drive. Equipped with wrench for mandrel. Weight Crated 2400 lbs.

Special Guide & Table A special guide (attachment R-10) and a special table (attachment R-11) have been designed for use with this Rip Saw for selective ripping. It saves time because the operator can set the guide while standing back at end of board to be ripped. Complete information on Page 26 of this catalog.

DEPENDABLE *Belt Drive* GANG RIP SAW

High Speed

Ball-Bearing



V-Belt or Flat Belt Drive

Without Outboard Bearing

With or Without Motor

Spur Feed

Self-Feed

MODEL No. 110

FOR GOOD PRODUCTION AND ECONOMY

Design

The No. 110 Self-Feed Rip Saw is designed for plants having a single power unit or needing up to 25 H.P. for Vee belt drive. Designed for speed and accuracy in ripping material into parallel strips in planing mills, furniture or woodworking plants of any kind that require a strictly high class Rip Saw. Designed for single or gang ripping.

Sturdy Construction

The frame is of one piece contruction, heavily ribbed to take care of the most severe strains. It is made of the best grade gray iron. Designed heavy to eliminate vibration.

Easy Change of Saws

Made possible because of the design without outboard bearing. Saws can be changed in a matter of seconds by raising the table and unscrewing the large nut on the end of the mandrel. Another, still quicker, way is to unscrew two wing nuts, fastening steel plate to table, remove steel plate and then unscrew large nut on mandrel, and remove saws.

Instant Control of Feeds

By use of a clutch and lever arrangement. Feed consists of a power driven corrugated 8½" roller with spur center which travels in line with the first saw. The out-feed roller is a power driven, heavy, steel, fluted roller 10"x 8½". Feed mechanism is controlled by raising and lowering handwheel and screw with spring tension, for accommodating various thicknesses of stock. Has two 14" adjustable bottom rollers.

Four Speeds

Made possible by a four step cone pulley, equipped with Vee belt drive. Speeds are 50, 85, 120, 150 feet per minute.

Safety Features

Has spur roller in front of machine to resist the lumber from kicking back. Equipped with six safety fingers to prevent the lumber from kicking back. All sprockets are properly hooded. Has planer type "give" on feed mechanism to take stock of uneven thickness without damage to machine.

Capacity

Will saw through 3" stock with 14" saws and through 4" stock with 16" saws. It has six inches of saw space on the mandrel. This accommodates approximately three saws—more if ripping real narrow stock. Furnished with different size saw collars for gang ripping. Will rip lumber from 30" long to 20 feet long.

Saw Arbor

Is of best grade of spindle steel, being 2-3/16" in diameter where bearings and pulleys are applied and 2" where saws and saw collars work. It is equipped with heavy duty Fafnir ball bearings and the bearing housing is tongued into the frame, making a very rigid installation. Saw arbor speed is 2400 R.P.M.

Table

Is of extra heavy construction, well ribbed for strength. Size of the table is 32" wide x 56" long, full standard size, and having an adjustable lumber guide with eccentric lever lock on graduated scale to 15" long. Guide can be adjusted in 1 to 2 seconds. Extension for table can be added if desired. Table is raised by segment worm drive, insuring positive and easy raising of table by means of large handwheel in front of the machine, conveniently located for the operator.

Drive

Flat belt or Vee belt drive with from 10 to 25 H.P. motor recommended. Power unit speed is regularly 1800 R.P.M. but this can be regulated by different size pulleys if necessary. Machine cut sprockets are driven by heavy duty No. 80 roller chain.

Equipment

Equipped with two 14" Simonds Circular Rip Saws, dust hood, spacing collars from ⅜" to 4" inclusive, Vee belts for driving feed, and wrench for mandrel nut.

Special Guide and Table

A special guide (attachment R-10) and a special table (attachment R-11) have been designed for use with this Rip Saw for selective ripping. It saves time because the operator can set the guide while standing back at end of board to be ripped. Complete information on Page 26 of this catalog.

SPECIAL GUIDE R-10 and SPECIAL TABLE R-11

FOR MODEL NOS. 110, 111, 112, & 114 GANG RIP SAWS

GUIDE

DESIGN This Special R-10 Guide Attachment was designed for lumber plants that want to do SELECT RIPPING as well as GANG RIPPING, on DEPENDABLE GANG RIP SAWS. The attachment is designed so the operator can stand back 10-15 feet from the machine and quickly change the guide. This enables your operator to cut a knot out of a board thus making it qualify for a higher grade. This special guide R-10 will soon pay for itself for such work. It saves the time it would take the operator to walk up to the machine, change the guide, walk back, pick up the board and start it through the machine.

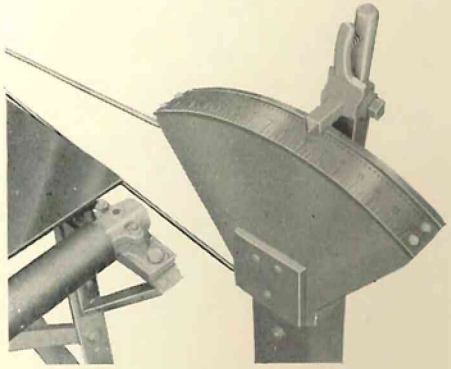
ACCURATE This guide is very accurate—being adjustable to fourteen inches. A series of holes is located opposite the scale every one-quarter inch. The Guide Pointer drops in the holes. It is positive, it cannot move because the pin drops into the hole opposite the desired setting on the graduated scale. The pin is tapered so as not to be affected by wear.

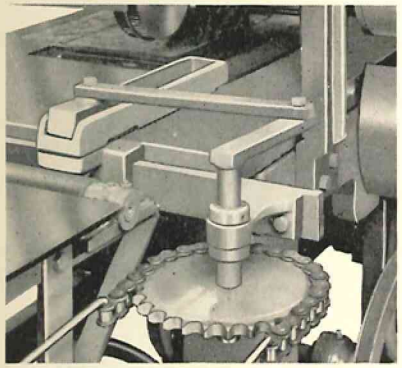
QUICK ACTION The operator can read the scale at a glance because it is located inside the Guide Change Lever. When the operator grabs the handle to move the Guide Change Lever he will at the same time release the Guide Pointer by squeezing the Pointer Release Lever. By means of the spring action the Pointer will remain firmly seated in its position until the Pointer Release Lever is squeezed.

EASY TO OPERATE The guide is designed so that it will move by just a minimum of force being exerted on the Guide Change Lever. This easy changing will save your operator time and energy.

RUGGED The Guide Change Lever Assembly is well constructed. It is 3′ high. This is designed so that the Guide Change Lever will be located at the right height for the average man to conveniently change the guide. A block can be inserted under the assembly for taller men.

SPECIFICATIONS 3/8″ steel rods connect to the Guide Arms on the Guide Change Lever Assembly at one end, and to roller bearing chain operating on a steel, cut sprocket at the guide end. Floor space 2′ wide x 10′ long (shorter or longer if desired). Weight 185 lbs. Weight Crated 250 lbs.





TABLE

This table is of all steel construction making it very rugged. It has two floating steel, ball bearing, rollers (one at each end) for easy movement of lumber across the table to Rip Saw bed.

This table is optional equipment with the R-10 Guide Attachment. In cases where the customer prefers to build a wooden table, steel rollers and bearings may be purchased separately.

Table legs are designed to fold up so as to take less space in shipping. Size of table is 3′ wide x 8½′ long. Weight 540. Shipping weight approximately 640. Floor space when used with guide 4′ wide x 10′ long.

Gives You Two Machines in One

DEPENDABLE NO. 323 JOINTING MACHINE

EVERY WOODWORKING PLANT HAVING A PLANER OR MOLDER NEEDS ONE

. . . to eliminate long idle periods of your production machines, by preparing your molder, profiler, and side heads, of the "slip on type", set up and jointed, ready for the next run. Instead of doing your setting up and jointing on your molder or matcher, while it is standing idle, do it while your molder or matcher is in production. This will greatly reduce your manufacturing cost if you can keep your big machines in full production the majority of the time your plant is in operation.

The Dependable No. 323 is inexpensive and easy to operate. With this small machine in your grinding room your heads can be set and jointed ready for the next run while your machines are running one pattern of stock. It will eliminate the time between runs to a minimum. Think of the time and production your millman loses between runs while he is setting and jointing knives on your machine for the next pattern.

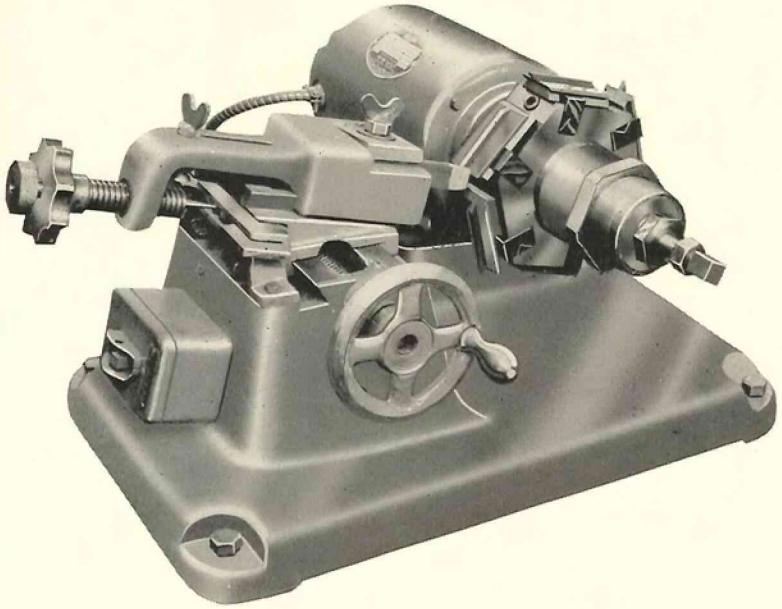
The No. 323 will joint the knives exactly as they would be jointed on your machine. Don't have an idle production machine in your plant. You not only lose time but production. These are two of the largest factors in your manufacturing costs. Act today! and make your plant more efficient by equipping it with a DEPENDABLE No. 323 Jointing Machine.

OPERATION

Knives are set in the head as accurately as possible by a gauge.

Head is placed and locked on the motor spindle.

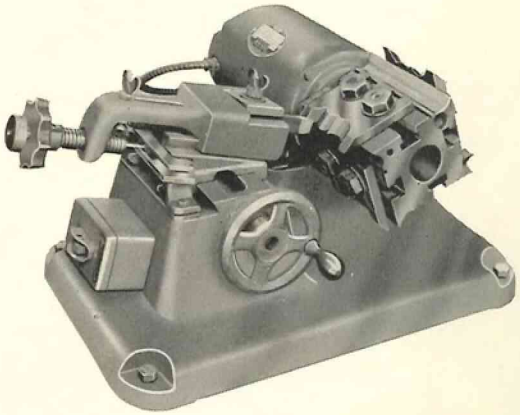
The Template is positioned by bringing jointing stone to front edge of the knife on the head, and sliding the Template until corresponding point is aligned with the Follower Pointer. The Follower Pointer is held in relative position by spring action. In other words, the Follower Pointer operates automatically following the outline of the Template as carriage is operated by hand.



SHOWING JOINTING DEVICE IN POSITION TO JOINT JONES-ORTH SIDE HEAD WITH FORMED KNIVES FOR MAKING CENTER MATCH

SPECIFICATIONS

Designed to take any kind or make head with 4" to 10" cutting circle and heads with knives up to 6" long not exceeding sixty pounds. Joints straight thick knives on square head, joints ground to pattern knives on square head, joints straight thin knives on round head, joints milled to pattern knives on molder, profiler and side heads.



SHOWING JOINTING DEVICE IN POSITION TO JOINT DEPENDABLE GROUND TO PATTERN MOLDING KNIVES ON DEPENDABLE SQUARE HEAD

Equipped with ½ H.P., 3600 R.P.M., 110-220, or 220-440 Volt, 60 Cycle, One or 3 Phase, Ball Bearing, Dust Sealed, Custom Made, Heavy Duty Motor with specially designed bearings and spindle to accommodate a heavy load at a high speed.

Reversible switch designed to accommodate right and left hand heads.

Carriage operated by handwheel for fast accurate operation.

Carriage travels on dovetailed slide gibbed for accurate and rigid performance.

Jointer Stone-Follower Pointer Assembly operates on dovetailed slide.
Clamp Assembly with lock nut for accommodating jointing stones ¾"x¾", ¾"x½", ¾"x5/16".

Quick adjusting handwheel for fast adjustment of the Follower Pointer to Template and fine adjustment handwheel for feed of jointing stone to knives being jointed.

Template holder with locking thumb screws.
Size 20"x22". Weight crated 180 lbs.

STANDARD EQUIPMENT

1 adapter as specified for any size or type head specified.
3 standard size jointing stones.
1 Template blank.

EXTRA EQUIPMENT

Additional adapters to take care of different size heads and different type heads.

Additional jointing stones.

Templates for standard mill-to-pattern and ground-to-pattern knives for molder and planer heads.

Templates for special pattern knives.

Template blanks (so millman can make his own pattern Templates.)

Coming Soon- *Dependable* ELECTRO-UNIT DRIVE MOLDERS

FEATURES

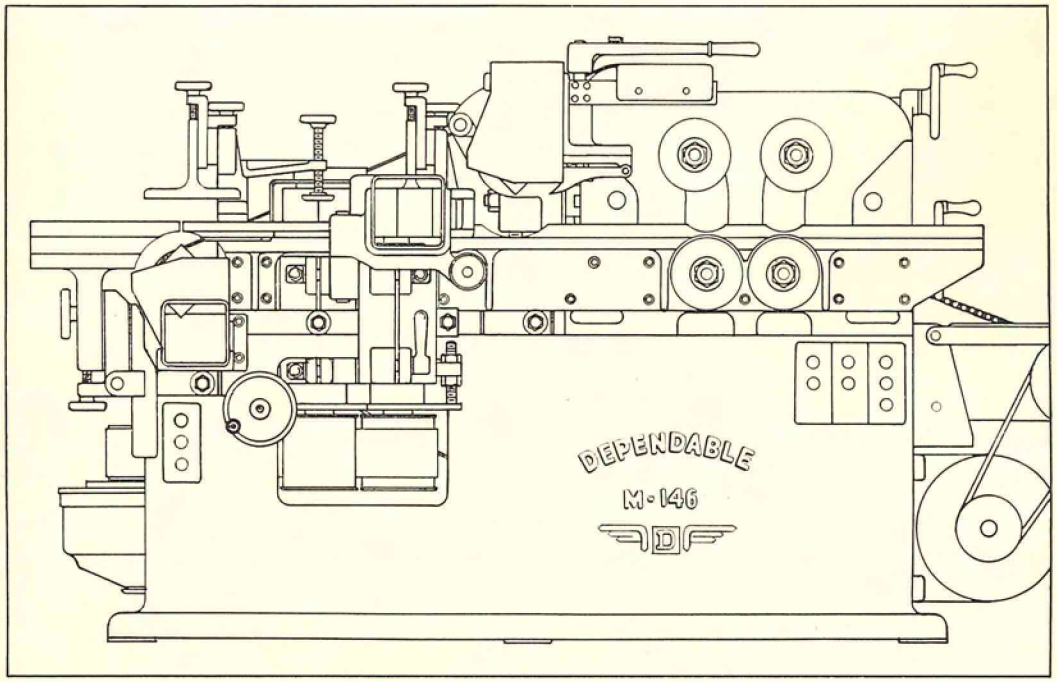
Precision Ball Bearing Cutter Head Spindles
Roller Bearing Feed Roll Spindles
Rigid One Piece Cast Iron Base
All Controls Operated from Front and Rear
No Special Wrenches or Tools Needed
Simplified Lubrication – Minimum Maintenance
Quick-Release Hold Down Shoes
Quick-Acting Feed Roll Adjustments
Quick-Acting Spindle Adjustments
Cushioned Chip Breakers
Cushioned Feed Rolls, 1½" Yield
Quickly Removable Hoods on All Heads
Completely Self-Contained
No External Equipment Needed
Turret-Type Side Heads
Side Head Locks not Affected by Wear
Cartridge Type Interchangeable Spindles

MODELS

Self-Contained, Electro-Unit Drive

M-152—12"
M-150—10"
M-148— 8"
M-146— 6"

CAPACITY—4"x6"
SIZE—50" high, 96" long, 40" wide
SPINDLE SPEED—5,000 R.P.M.
MOTORS—15 H.P., 10 H.P., 5 H.P.
SPEEDS—50, 75, 100 and 150 feet per minute



DEPENDABLE *Precision Built* BALL-BEARING EXHAUST FANS

DESIGN. The Dependable Industrial Exhaust Fans have been carefully designed and engineered so as to give the utmost in service. The Dependable blast wheel is designed and made to be the most indestructible and efficient operating unit to move the greatest amount of air, shavings, dust, or lint.

CONSTRUCTION. These exhausters are constructed of a high grade steel making them sturdy and giving them long life. They are rigid and compact. Steel on main housing of 20—through 35" fans is 3/16", main housing steel on 40" models and up is ¼".

SHAFT DIMENSIONS—BEARINGS SIZE

Size	Dia.	Length	Keyway	Length Keyway Hub End	Length Keyway Pulley End	SAO Heavy Duty Ball Bearings
20	1 3/16	26	1/4	3	4	1 3/16
25	1 7/16	30	3/8	4	5	1 7/16
30	1 7/16	34	3/8	5	6	1 7/16
35	1 7/16	37	3/8	5	6	1 7/16
40	1 11/16	39	3/8	5	6	1 11/16
45	1 15/16	40	1/2	5	6	1 15/16
50	1 15/16	44	1/2	5	6	1 15/16
55	2 3/16	46	5/8	5	7	2 3/16
60	2 3/16	49	5/8	6	8	2 3/16
70	2 7/16	54	5/8	6	8	2 7/16
80	2 11/16	58	5/8	6	8	2 11/16

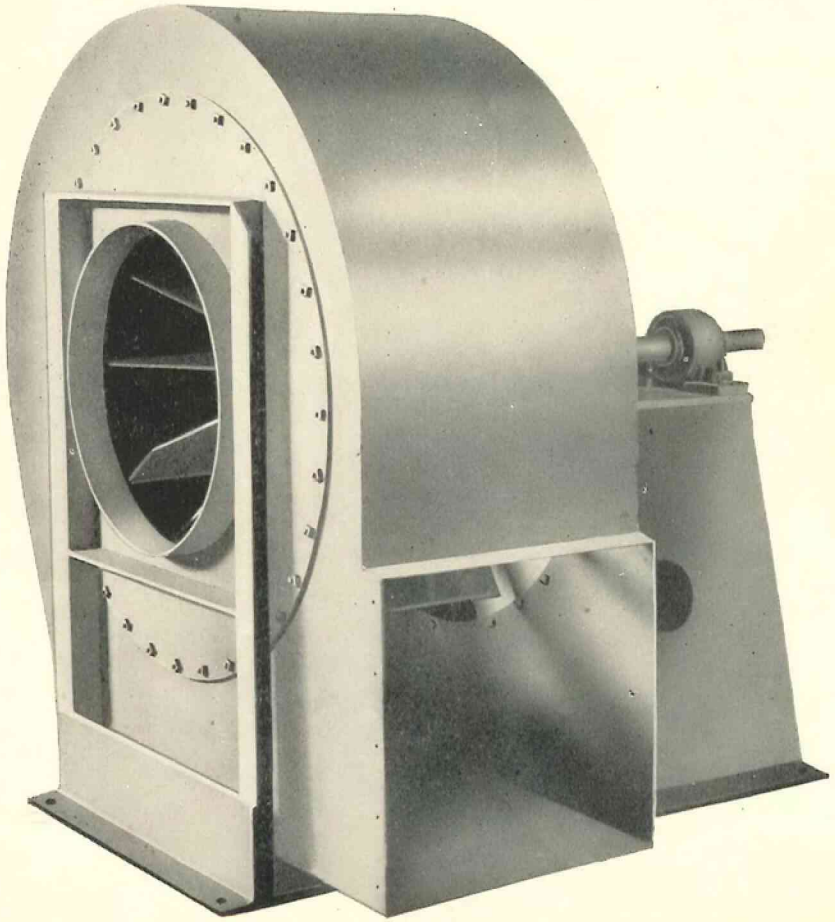
WHEEL DIMENSIONS / SHIPPING WEIGHTS

Size	Dia.	Width	Hub Dia.	Hub Length	Bore	Keyway	Blowers Standard	Blowers Slow Speed	Wheels Standard	Wheels Slow Speed
20	14 1/4	5 3/4	3	3	1 3/16	1/4	165	—	24	—
25	18 1/4	7 3/4	4	4	1 7/16	3/8	310	—	35	—
30	20 1/4	10	4	5	1 7/16	3/8	420	460	60	80
35	24 3/4	11	4	5	1 7/16	3/8	475	520	85	130
40	27 1/4	12 3/4	4	5	1 11/16	3/8	645	700	105	160
45	31	13	5	5	1 15/16	1/2	865	930	125	190
50	34	14 1/2	5	5	1 15/16	1/2	1050	1120	135	205
55	38 1/2	16	5	5	2 3/16	5/8	1290	1380	160	250
60	42	17	6	6	2 3/16	5/8	1640	1750	215	325
70	45 3/4	20	6	6	2 7/16	5/8	1765	1900	230	365
80	52 1/4	21	6	6	2 11/16	5/8	2340	2500	290	450

A complete stock of spare parts is always available for immediate shipment, including bearing housings and the ball bearing inserts.

BEARINGS. Only Fafnir, SAO, heavy duty, dust proof, ball bearings are used. Both bearings are on one side, allowing no grit or dust to reach them. This insures trouble free operation.

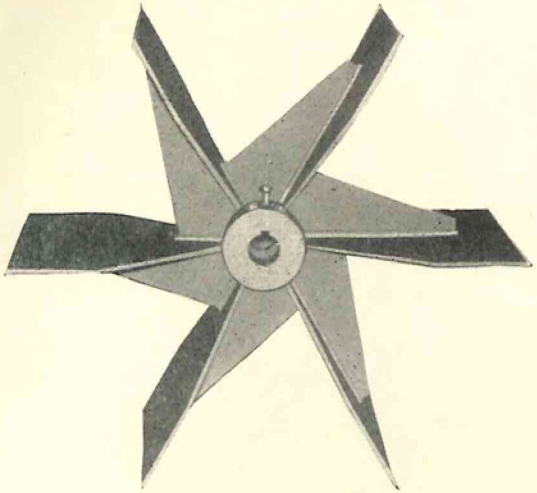
BLAST WHEEL. The Blast Wheels are designed to be really rugged. The long, heavy blades have extra heavy braces which are solidly welded into a single unit. Each blade is securely welded into a carefully machined steel hub.



ALL STEEL HEAVY DUTY

(Continued on page 30)

ANY DEPENDABLE FAN MAY BE RE-ARRANGED TO ANY POSITION

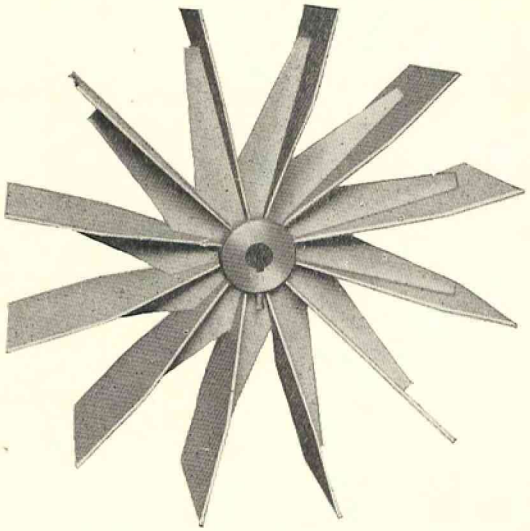


STANDARD WHEEL

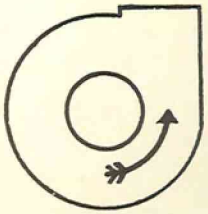
Dependable Exhaust Fans are so designed that they may be re-arranged to any position by removing a few bolts. The housing is then rotated to the desired position and the bolts replaced. This design enables you to have the best possible position for your fan, and should you ever decide to make changes in your plant "set-up" you do not have to buy a new fan. Shown below are the most common blower arrangements used in blow pipe work.

Key: R—Right, H—Hand, L—Left, U—Up, B—Blast,

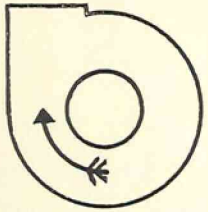
T—Top, D—Down, h—Horizontal



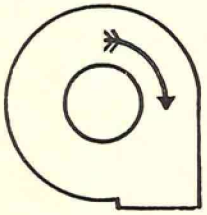
SLOW SPEED WHEEL



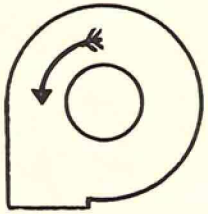
RHUB



LHUB



RHDB



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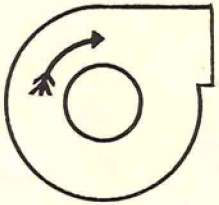

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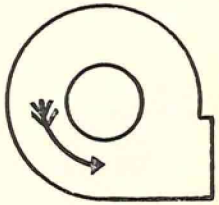

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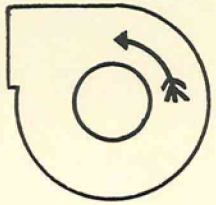
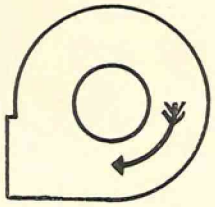
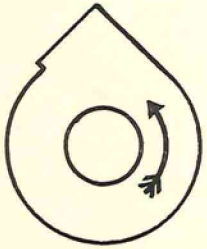


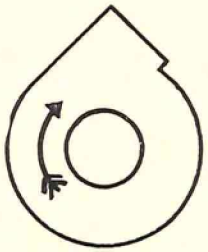
LHTh



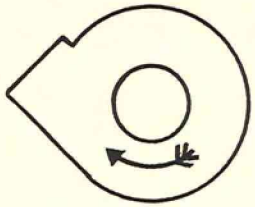
LHBh



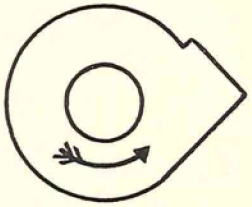
LHTh—UP 45°



RHTh—UP 45°



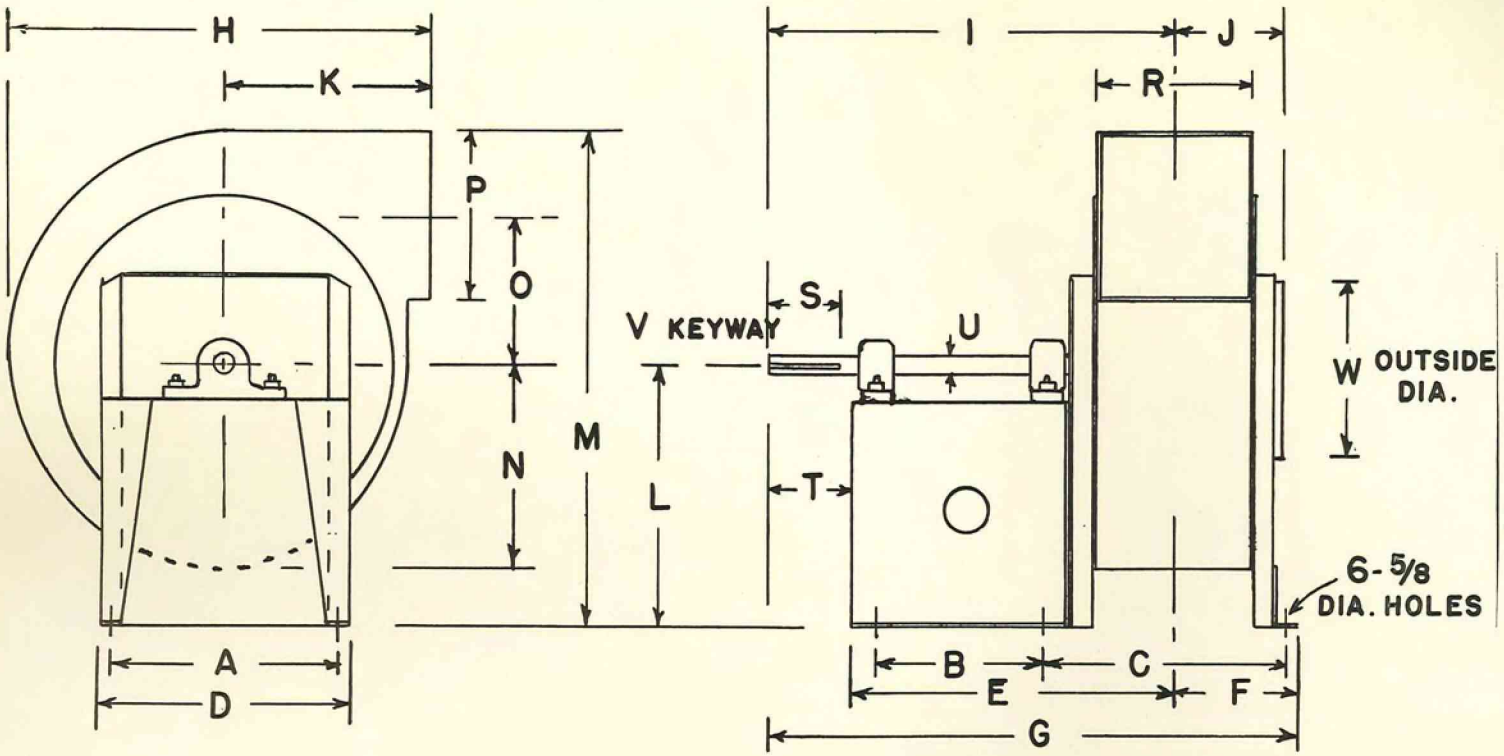
LHBh—UP 45°



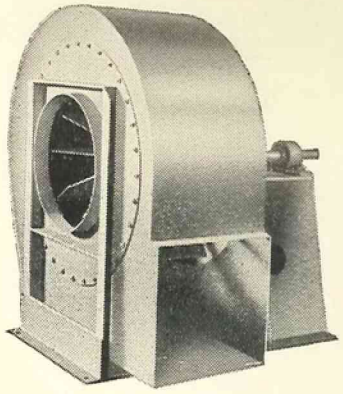
RHBh—UP 45°

DIRECTION OF ROTATION IS DETERMINED FROM THE SUCTION SIDE OF FAN

All Rotating Parts on Dependable Fans are STATICALLY and DYNAMICALLY BALANCED to approved engineering standards by the most modern methods



BALL BEARING



ALL STEEL

SPECIFICATION CHART SHOWING ALL DIMENSIONS

FAN SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V	W
20	11 5/8	12	13 3/4	12 5/8	20 1/8	6 7/8	32 1/2	22 1/8	25 5/8	6 5/8	11	13	25	10 1/8	8 1/8	8	9	4	5	1 3/16	1/4	9
25	15 1/2	11 1/2	16 7/8	17	22 5/8	8 3/4	36 7/8	26 1/4	28 5/8	7 3/8	13 1/2	15 7/8	29 5/8	12	8 7/8	10 1/2	10 1/4	5	6	1 7/16	3/8	11
30	16 1/2	13	18 1/2	18 1/2	24 3/4	9 1/2	39 1/2	31	31 1/4	8	15 3/8	18 7/8	35 1/2	14 3/8	11	12	11 1/2	6	6	1 7/16	3/8	13
35	19	14	20 3/8	21	26 1/2	10	44 1/8	35	33 1/2	9	17	21 1/4	41	16 5/8	12 5/8	14	13	6	7	1 7/16	3/8	15
40	21	15	22 5/8	23	28 3/4	10 7/8	46 7/8	38 1/2	35 1/4	10	19	23 3/4	45 1/4	18 1/4	14 3/8	15	14 5/8	6	7	1 11/16	3/8	17
45	24	16	24 1/2	26	30 3/4	11 3/4	49 3/4	43 3/4	37 1/4	11	21	26 5/8	51 1/4	20 3/4	16 5/8	16 5/8	16 1/2	6	7	1 15/16	1/2	19
50	25	17	26 1/2	27	32 3/4	12 3/4	52 5/8	48 3/4	34 1/4	12	23 1/4	29	55 3/8	23 3/8	19 1/4	19 1/2	18 3/8	6	7	1 15/16	1/2	21
55	27	18	28 1/4	29	34 5/8	14 5/8	55 3/4	52 1/8	41 1/2	13	24 3/4	32 1/8	62 1/4	24 7/8	20 1/4	20 1/4	20 1/4	7	8	2 3/16	5/8	23
60	31	20	29 3/4	33	36 3/8	15 3/8	60 1/4	56 1/2	44 1/2	13 3/4	26 1/4	35 1/8	68 1/8	27	22 1/4	22 1/8	21 3/4	8	9	2 3/16	5/8	25
70	34	24	35 7/8	36	42 1/4	18 1/4	69 3/8	62 1/2	50 1/4	16	28 1/2	39 3/8	76 3/8	30 1/8	24 1/4	26	25 3/8	8	9	2 7/16	5/8	29
80	39	26	38 1/2	41	45 1/2	19 1/2	74	71 3/4	54	17	32 3/4	45 7/8	88 1/8	34 3/4	28 1/4	29 3/4	28	8	9	2 11/16	5/8	33

Continued on page 32

YOU CAN'T GO WRONG ON A DEPENDABLE INDUSTRIAL EXHAUSTER

SPECIFICATION CHART FOR DEPENDABLE BLOWERS

Speed, capacity and H P required for Dependable Blower Exhaust Fans, based on duct velocities.

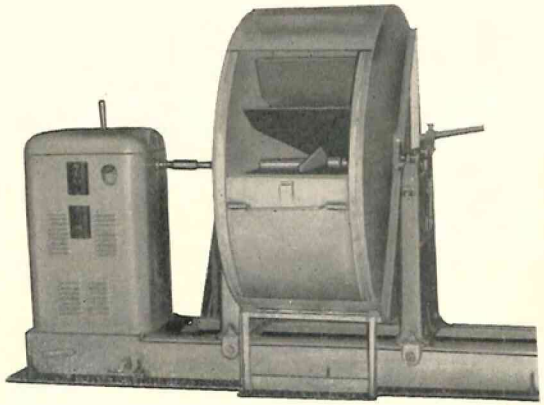
THIS CHART IS FOR THE SLOW SPEED MODEL FANS

FAN DIMENSIONS		VELOCITIES OF AIR IN SUCTION AND DISCHARGE PIPES											
		3000 FPM			3500 FPM			4000 FPM			4500 FPM		
SIZE	DIA. INLET	CFM	RPM	HP	CFM	RPM	HP	CFM	RPM	HP	CFM	RPM	HP
35″	15″	3690	1185	7.5	4310	1385	10	4920	1585	15	5540	1780	20
40″	17″	4725	1000	7.5	5515	1165	10	6300	1330	15	7100	1495	20
45″	19″	5910	910	7.5	6900	1060	15	7880	1210	20	8860	1360	25
50″	21″	7200	810	10	8400	945	15	9350	1050	20	10800	1215	30
55″	23″	8660	715	10	10100	835	20	11560	955	25	13000	1075	35
60″	25″	10230	645	15	11920	750	20	13630	860	30	15330	965	40
70″	29″	13750	550	15	16020	645	25	18030	735	35	20600	825	50
80″	33″	17800	475	20	20750	555	30	23700	635	45	26700	715	65

ALL WHEELS ARE TEST RUN BEFORE SHIPMENT TO INSURE PERFECT PERFORMANCE

THIS CHART IS FOR STANDARD MODEL FANS

FAN DIMENSIONS		VELOCITIES OF AIR IN SUCTION AND DISCHARGE PIPES											
		3000 FPM			3500 FPM			4000 FPM			4500 FPM		
SIZE	DIA. INLET	CFM	RPM	HP	CFM	RPM	HP	CFM	RPM	HP	CFM	RPM	HP
20″	9″	1325	1920	2	1550	2250	3	1775	2575	5	1990	2880	7.5
25″	11″	1975	2080	3.5	2230	2350	5	2640	2775	10	2970	3120	15
30″	13″	2775	1735	5	3240	2025	7.5	3600	2250	10	4090	2550	15
35″	15″	3690	1518	7.5	4310	1770	10	4920	2020	15	5350	2200	20
40″	17″	4725	1315	7.5	5515	1550	15	6300	1770	20	7050	1975	25
45″	19″	5910	1150	10	6900	1340	15	7750	1500	20	8860	1720	30
50″	21″	7100	975	10	8400	1155	20	9600	1320	25	10800	1485	35
55″	23″	8660	900	15	10100	1050	20	11560	1200	30	13000	1325	40
60″	25″	10230	800	15	11920	930	25	13630	1060	35	15330	1195	50
70″	29″	13750	695	20	16020	810	30	18030	925	45	20600	1040	65
80″	33″	17800	630	25	20750	735	40	23700	840	60	26700	945	85



This testing machine assures the Perfect Balance essential for Maximum Efficiency of Operation. . . . . Tests both STATIC and DYNAMIC BALANCE

STATIC balance is accomplished by the accurate weighting in all standing positions, so that no heavy portion can remain . . . every standing part is equal.

Then DYNAMIC balance is obtained by careful testing at high rotating speed to insure absolute absence of side motion, vibration, and "shimmy".

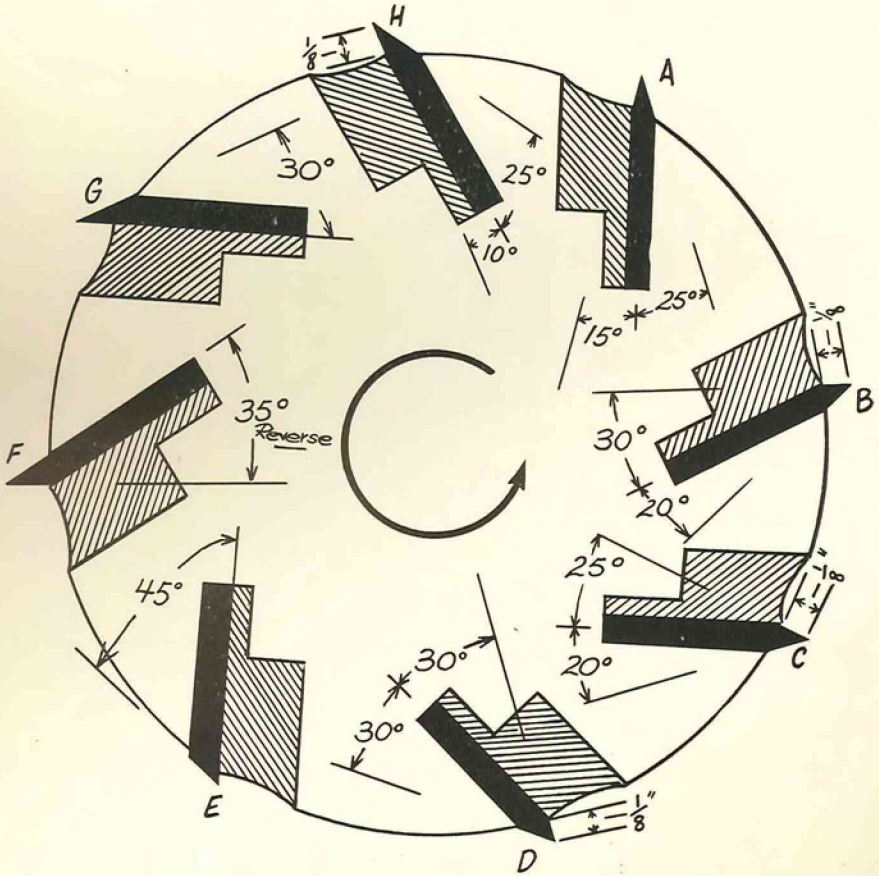
This meticulous testing under conditions more severe than will probably ever occur in actual operation assures every user of a Dependable Blower economical and long-time service.

Continued on page 33

A GUIDE FOR USE IN GRINDING PLANER KNIVES

In order to get good quality lumber, as well as best service out of your production machines, it is necessary that your knives be ground with the proper cutting angles, cutting bevel, and clearance bevel.

The proper angle will insure that the excess material will be cut off instead of hammered off. Knives should always be kept sharp. Dull cutters are dangerous to your operator because this hammering (rather than cutting) caused by dull cutters might cause the knives to break and fly in every direction.



These are for a high speed thin steel knife which are generally 1/8", 5/32", and in a few instances 3/16" thick.

The most popular thickness is 5/32" ranging in 1¼", 1⅝", 1½" and 2" widths.

*Information on this page furnished by Wapakoneta Machine Company, Wapakoneta, Ohio.

"A" is Suitable for

Gum	Dry
Elm	Dry
Beech	Wet
Birch	Wet
Yellow Pine	Bone Dry
White Pine	Bone Dry
Hemlock	Bone Dry

"B" is Suitable for

Oak	Dry
Ash	Dry
Maple	Dry
Larch	Bone Dry
Norway Pine	Bone Dry
Fir	Bone Dry
Poplar	Bone Dry

"C" is Suitable for

Oak	Bone Dry
Ash	Bone Dry
Gum	Bone Dry
Elm	Bone Dry
Beech	Dry
Birch	Dry

"D" is Suitable for

Maple	Bone Dry
Beech	Bone Dry
Birch	Bone Dry

"E" is Suitable for

Box Spruce

"F" is Suitable for

Maple	Bone Dry
Beech	Bone Dry
Birch	Bone Dry
Oak	Bone Dry
Ash	Bone Dry
Fir	Bone Dry

"G" is Suitable for

Yellow Pine	Wet
Oak	Wet
Ash	Wet
White Pine	Wet
Cypress	Wet
Redwood	Wet
Basswood	Wet
Fir	Wet
Larch	Wet
Poplar	Wet
Norway Pine	Wet
Spruce	Wet-Dry
Hemlock	Wet-Dry
Cotton Wood	Wet-Dry
Cedar	Wet-Dry

"H" is Suitable for

Yellow Pine	Dry
White Pine	Dry
Cypress	Dry
Fir	Dry
Larch	Dry
Poplar	Dry
Norway Pine	Dry
Redwood	Dry
Basswood	Dry
Spruce	Bone Dry
Cotton Wood	Bone Dry
Maple	Wet
Gum	Wet
Elm	Wet

Dependable MILL SUPPLY COMPANY

P. O. Box 839 HIGH POINT ROAD
GREENSBORO, N. C.
PHONE 2-2954

QUALITY AND SERVICE

WELCOMES THE OPPORTUNITY TO SERVE YOU

We Specialize in Supplies Needed by the Woodworking Industry

Simonds Planer Knives and Saws, Files, Superior Belt Hooks, Beltraction Belt Dressing, Fafnir Ball Bearings, Emery Wheels, Babbitt, Bushings, Pillow Block Bearings, Jones-Orth Heads and Knives, Alemite Lubrication Equipment, Walter Scott Paints, Mall Portable Tools, Brown-Brockmeyer (B-Line) Motors, and a Line of Small and Medium Size Machinery and Portable Tools Manufactured by Reputable Manufacturers.

We Carry a Complete Stock of Dependable Parts

We stand ready to serve you in any way that we can so you may get full service out of your DEPENDABLE machine. We carry in stock a complete line of emery wheels, bearings, belts, and parts, the same used on new machines. When the need arises give us the opportunity to render our "Dependable Quality and Service". In most cases we make shipment the day your order is received. We await the opportunity to serve you.

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