

January 1906

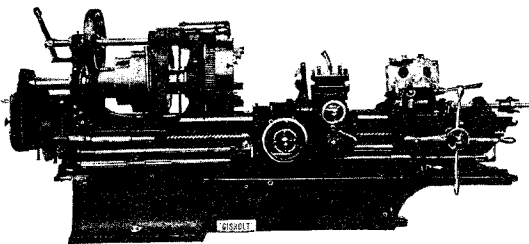
Issued Every Month  
for Free Distribution to all Users  
of Machine Tools

HITCHCOCK'S  
MACHINE  
TOOL LIST

A Reference Book for Buyers  
of Iron Working Machinery

Published by  
A. H. HITCHCOCK  
626-627 Monarch Block  
Chicago

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*Will Do the Work of*

boring, turning and facing, on chucked work—also threading when required—in faster time and with greater average accuracy than you can do the same work on from

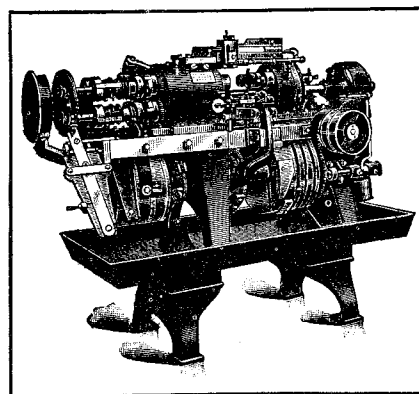
*Three to Four Engine Lathes*

This is a statement we have proven time and time again, and we should like to prove it to you. Won't you tell us about your work and let us give you the Gisholt time for the job?

*May we send you our complete catalogs of Gisholt Lathes, Boring Mills and Tool Grinders?*

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## "Acme Automatic"



*The Wholesale Screw Machine*

For quick, accurate work it has no equal. One set of tools only. **Four** bars simultaneously operated upon.

**The National-Acme Mfg. Co.**  
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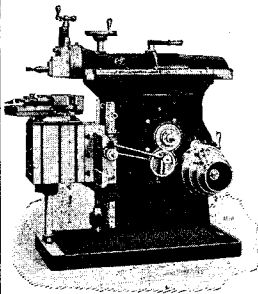
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**"Cincinnati" Back Geared Crank Shaper**



The gearing is designed to make this

**The Most Powerful Shaper**

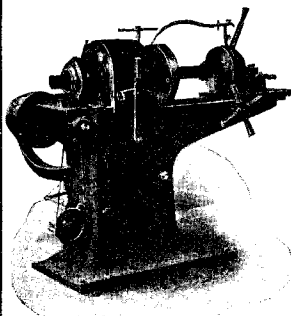
of its stroke on the market. The powerful design, with strength and accuracy in every detail, the careful selection of the material best adapted to each part, and the various tests during construction, as well as of the finished machine, produce a shaper of the very highest type in power, strength, accuracy and general efficiency.

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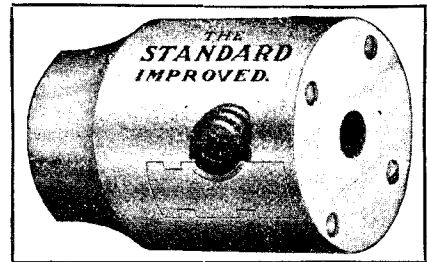
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No. 1 $\frac{1}{2}$ , Cutting  $\frac{1}{2}$  to 3 Inches.

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**DO YOU USE**  
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**If so, you want the BEST.**

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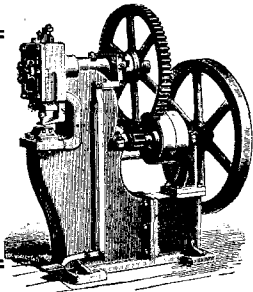
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PUNCHES:

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Double  
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SHEARS:

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Universal

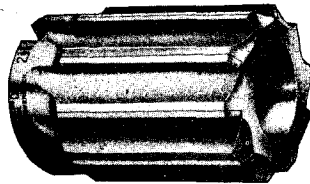
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**Matthews High-Speed Reamers and Core Drills Give These Results**



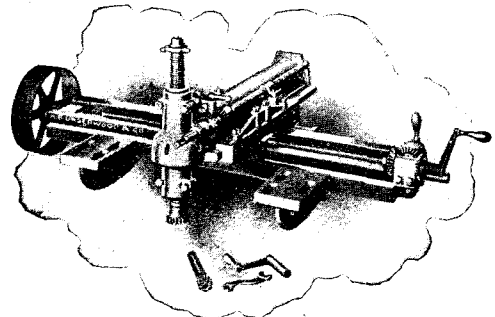
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of the tool cost per piece. If this is the kind of economy you want in your shop, give us a chance to show you; you can't lose by knowing, and knowledge means money to you.

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**O**UR portable millers and boring machines are adapted to a wide range of work, and are especially economical and convenient in handling repair jobs, such as engine cylinders, valve seats, etc., which cannot easily be moved to the shop. They are great time and labor savers, and their cost is so small in proportion to what they do that no machinist who does any repair work can afford not to have them. **We make a specialty of portable machines for boring locomotive cylinders and facing valve seats, cylinder head joints, etc.**

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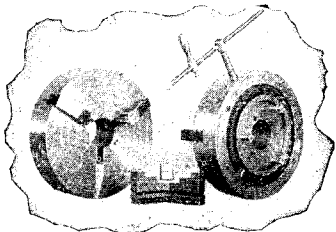
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Heavy Chucks for severe duty, proportioned for use on modern turret lathes, and for all requirements where **weight, power and durability** are essential. Also a complete line of

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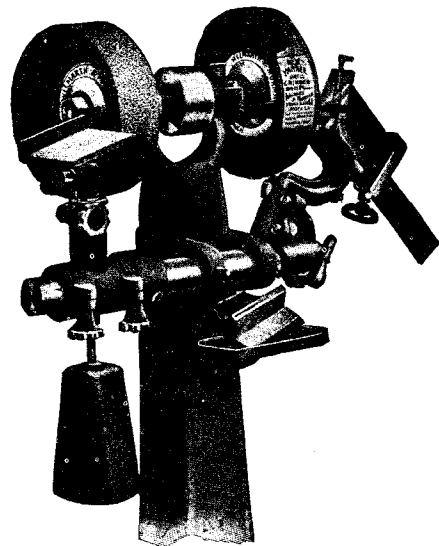


Users say that with our key seating tools an inexperienced drill press hand will cut key ways in about one-third the time required for an expert man to do as good work on a planer or shaper. They are simple, durable, easily handled, and they save both time and money. Make every seat exactly alike, so that no filing is needed to fit the key.

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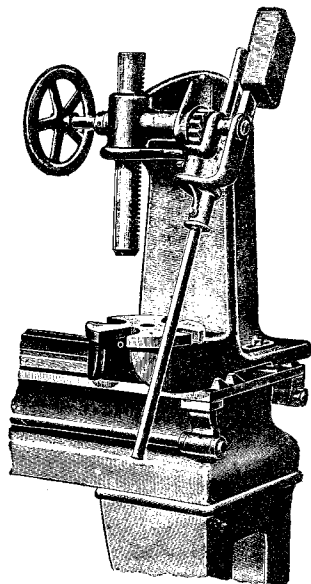
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## **New Yankee Drill Grinder**

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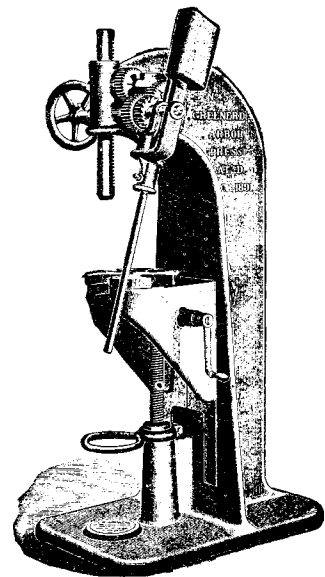
If you are, you are altogether wrong; 't isn't the right way; never was, never will be. It is not only a time-wasting way, but it is a destructive way.

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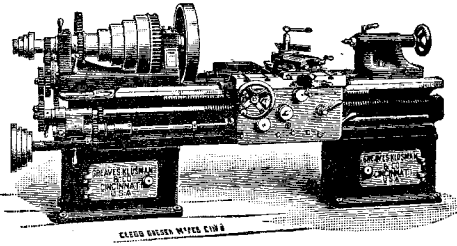
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16 to 24 Inch Swing

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**Greaves, Klusman & Co.**

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ALSO BUILDERS OF

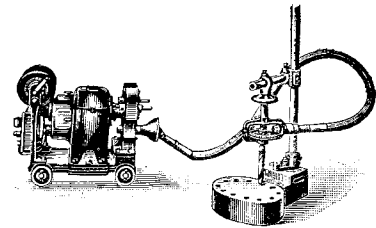
**Pattern Makers' Lathes and Machinery  
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## Woodworking Machinery

If you are in search of machinery for working wood, write to the publisher for a copy of **The Machinery List**, containing the advertisements of all the leading manufacturers of wood-working tools, as well as complete lists of second-hand machinery in market. Mailed **free**, on receipt of request, to anybody, anywhere on earth.

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or Grinding**



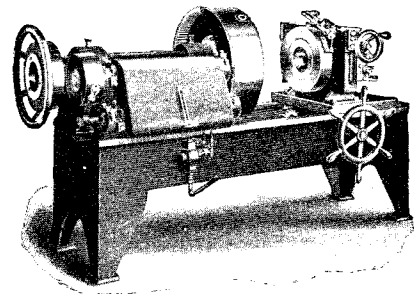
There isn't a better combination made than the

**STOW FLEXIBLE SHAFT**

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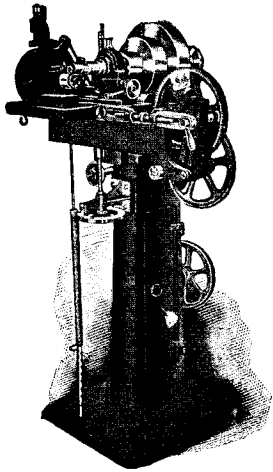


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We build the most thoroughly modernized line, to cut all sizes of pipe, from  $\frac{1}{4}$  inch to 12 inches. . . . . Send for booklet.

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## Automatic Gear Cutters



We build:

### No. 1 Size

Capacity  $\frac{1}{8}$  to 5 inch diameter, 16 pitch and finer.

### No. 2 Size

Capacity  $\frac{1}{8}$  to 8 inch diameter, 12 pitch and finer.

### Semi-Automatic

Capacity  $\frac{1}{8}$  to 3 inch, 24 pitch and finer.

### No. 11 Universal

For both bevel and spur gears.

THESE machines are used to cut tool steel reamers, milling cutters, needle and screw slotting saws; on machine steel and brass, for cutting variety of spur gears, pinions, segments, lock parts, typewriter feed and escape wheels, scale pinions, gearings in phonographs, graphophones, gas and water meters, time clocks, fish reels, etc. We claim that for work within range, we can turn out more in quantity and better work than on any other machine on the market.

We also contract to furnish gears cut in lots of 1,000 or more.

Send for New Catalogue G 6

**Dwight Slate Machine Co.**  
Hartford, Connecticut

## Second-Hand Machinery.

Lists of second-hand machinery, either for sale or wanted, will be published under this heading at the rate of **40 cents a line**, agate measure, each issue, with a minimum charge of \$4.00. Name and address of advertiser are not counted in the space charged. Prices and full descriptions of the machines listed will be furnished by the parties offering them for sale. If you do not find what you require, use the slip enclosed with each book to make known your wants to the publisher.

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**The W. M. Pattison Supply Co., - - - Cleveland, Ohio.**

20 in., Prentice Bros.	DRILLS.	Style "M," Baker Bros.
25 in., Barnes.		4 ft. arm, universal radial.
	ENGINES.	10x18 side crank, Atlas.
8x8 vertical, O. & S.		12x18 automatic, Ball.
8x12 center crank, Erie.		14x18, Prescott.
10x12 center crank, Brownell.	LATHES.	
10x12 automatic, Ball.		14x6 elevating rest, Porter.
		16x6 elevating rest, Blaisdell.
10x4 compound rest, Sebastian.		16x12 comp. rest, Bradford, with taper and coarse screw-cutting attachment.
13x5 elevating rest, Ames.		Turret, Brown & Sharpe No. 6.
14x6 comp. rest, Lodge & Shipley.	PLANERS.	
14x6 elevating rest, Blaisdell.		24x24x6, Pease.
14x6 elevating rest, Flather.	MISCELLANEOUS.	
		Boring machine, Niles, vertical, 60 in.
22x22x5, Gray.		Hammer, helve, Bradley, 25 lbs.
		Hammer, steam, Bell, 700 lbs.
		2 Shapers, Pratt & W., 10 and 14 in.

### FOR SALE BY

**Louis E. Reichtin & Bro., - - - Cincinnati, Ohio.**

Air compressor, Blake, 15 lbs. pressure. \$125.  
Blower, Sturtevant No. 5, 6 $\frac{1}{2}$  in. outlet. \$37.50.  
Blower, cupola, Root, 6 in. \$50.  
Drill press, post, 14 $\frac{1}{2}$  in. \$6.  
Drill press, post, 18 in., belt power. \$13.50.  
Drill press, post, 22 in., belt power. \$20.  
Drill press, Lodge-Davis, square base, 24 in. \$85.  
Forge, with lever, 29x36 in. hearth, 15 in. fan. \$15.  
Gear cutter, Steptoe, for gears up to 12 in. \$75.  
Lathe, engine, with large chuck and other fixtures, 21 in. x 8 ft. \$175.  
Lathes, speed, all iron, with countershaft, 14 in. \$45.  
Lathe, turret, Williamson, 4 hole turret, fair order. \$75.  
Planer, metal, Bogart, 28x24 in. x 8 $\frac{1}{2}$  ft., fine order. \$350.  
Shafting, pulleys, hangers, all sizes.

### FOR SALE BY

**Norton Machinery Co., - - - Cincinnati, Ohio.**

Bending rolls, 1 set, power, 42 in.  
Boring mill, 12 ft., with extension to 25 ft.  
Lathe, locomotive tire, single head, 84 in.  
Lathe, locomotive tire, double head, 80 in.  
Planer, 24x24 in. x 6 ft.  
Planer, 30x30 in. x 10 ft.  
Planer, 34x54 in. x 20 ft.  
Punch, boiler makers' alligator.  
Shears, boiler makers' beveling.  
Shears, boiler makers', very heavy, 26 in. depth of throat.  
Several small lathes, drill presses, etc.  
Let us know what you want.



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FOR SALE BY

C. C. Wormer Machinery Co., 94-96 W. Woodbridge St., Detroit, Mich.

- 16 Air hoists, from 6 $\frac{1}{2}$  in. x 2 ft. 7 in. to 9 $\frac{1}{2}$  in. x 4 ft. 7 $\frac{1}{2}$  in., A845.
- Boiler tube rattler, 30 in. diam. x 17 ft. 2 in. long, inside measure, A838.
- Bolt cutter,  $\frac{3}{8}$  to 1 $\frac{1}{2}$  in., single, self-opening die heads, A542.
- " "  $\frac{1}{2}$  to 2 in., single, self-opening die heads, A543.
- Borer, car wheel, 44 in., with 36 in. Horton 3-jaw chuck, A884.
- Centering machine, Woodward & Rogers, 3 in., A8942.
- Whitton, 5 in., A811.
- Cutting-off machine, Pratt & Whitney, 2 in., A814.
- " " 2 $\frac{1}{2}$  in., two tools, A720.
- " " Hurlburt & Rogers, 3 in., two tools, A834.
- " " double tool, 4 in., accelerated speed, A831.
- Die-chamfering machine, with countershaft and blank holder, A819.
- Drill, Sigourney, 12 in., sensitive, 11-16 in. spindle, on column, A305.
- " 20 in., sliding head, 1 $\frac{1}{2}$  in. spindle, head adjusted on col., 24 in., A357.
- " Bickford, 24 in., sta. head, b.g., p.f., a.s., 19-16 in. spindle, sq. base, A397.
- " 26 in., stationary head, b.g., 1 15-16 in. spindle, travel 10 in., A383.
- " 36 in., stationary head, b.g., hand feed, No. 4 taper, A381.
- Foot-Burt, sensitive, 6 spindle, A303.
- Drill, radial, No. 12, semi-universal, center of 9 ft. circle, A398.
- " " Fosdick, 3 ft. arm, plain standard, with tapping atchmt., A388.
- " " Fosdick, 4 ft. arm, plain standard, with tapping atchmt., A389.
- Drilling and tapping attachment, pulley, drills up to 20 in., A835.
- Gear cutter, Gould & E., 36 in., semi-automatic, for spurs or bevels, A829.
- Gear cutting attachment, suitable for lathe from 1 $\frac{1}{2}$  to 24 in., A244.
- Grinder, Middleditch, cinder and washer, A259.
- " Gardner No. 6, double disc, with all accessories, A814 $\frac{1}{2}$
- " Garvin, surface, hand feed, 5 in. table, C477.
- " Diamond No. 1, improved automatic surface, C462.
- " Norton, universal cutter and tool, A813.
- " Diamond, 10x3 ft., ball case, with chuck, A612.
- Groover, 20 in., A821.
- Hammer, steam, Bell-Standard No. 2, 450 lbs., A512.
- " steam, Chambersburg, 800 lbs., A511.
- " steam, Trethway, open back, 900 lbs., A502.
- " steam, Bement, Miles & Co., 200 lbs., A507 $\frac{1}{2}$ .
- " belt driven, Hawkeye No. 2, 40 lbs., A510.
- " foot power, arm and head, 81 lbs., A501.
- " board lift, Bliss, 4 poppet, 400 lbs., A508.
- " board lift, Pratt & Whitney, forging, 600 lbs., A509.
- " board lift, Merrell, forging, 1,000 lbs., A505.
- Key-seater, Mitts & Merrill No. 2, with cutters 9-16 to 1 $\frac{1}{2}$  in. and c. s., 895 $\frac{1}{2}$ .
- " Giant No. 1,  $\frac{3}{4}$  to 1 $\frac{1}{2}$  in. cutters, A885.
- " Baker Bros. No. 1, 15 in. stroke, A833.
- " Davis No. 1, with cutters  $\frac{3}{8}$  to 1 $\frac{1}{2}$  in., A809.
- Lathe, engine, Sebastian, 13 in. x 5 ft., plain rest, A55.
- " " Blaisdell, 13 in. x 5 ft., rise and fall rest, A78.
- " " Reed, 14 in. x 4 ft., rise and fall rest, with chuck, A1.
- " " Reed, 14 in. x 7 ft., rise and fall rest, with chuck, A12.
- " " Sebastian, 15 in. x 8 ft., compound rest and taper, A2 $\frac{1}{2}$ .
- " " Walcott, 15 in. x 8 ft., rise and fall rest, with chuck, A4.
- " " Ames, 16 in. x 6 ft., plain rest, A90.
- " " Gray, 17 in. x 6 ft., plain rest, A88.
- " " Jones & Lamson, 18 in. x 6 ft., rise and fall rest, A79.
- " " Star, 19x8, p.r., turret on bed, raising blocks to 26 in., A82.
- " " Cincinnati, 20 in. x 12 ft., compound rest, A69.
- " " Davis, 22 in. x 14 ft., compound rest, A59.
- " " Fifield, 28 in. x 16 ft., comp. rest, raising blocks to 50 in., A148.
- " " 50 in. x 21 ft., triple geared, compound rest, A146.
- Lathe, special, 13 in. x 3 ft., back-geared stud, rise and fall rest, A152.
- " " 14 in. x 3 ft., single end axle, A124.
- " " 15 in. x 5 ft., drilling, with chucks, A160.
- " " Otis, 13 in. x 3 ft., bench,  $\frac{3}{8}$  in. hollow spindle, A177.
- " " Greaves & Klusman, 17 in. x 6 ft., spinning, A171.
- " " Greaves & Klusman, 24 in. x 6 ft., spinning, A172.
- " " 21 in. x 8 ft., power feed to tailstock, A153.

SECOND-HAND MACHINERY

C. C. Wormer Machinery Co.—Continued.

- Lathe, special, 39 $\frac{1}{2}$  in. x 16 ft., for facing columns, A179.
- " " pit, with 84 in. face plate, 6 ft. bed, A184.
- Lathe, speed, Barnes, 7 in. hand screw feed, velocipede foot motion, A181.
- " " 8 in. x 4 ft., 4-step cone,  $\frac{3}{8}$  in. hollow spindle, A178.
- " " 9 in. x 4 ft., for bench, 5-16 in. hollow spindle, A218.
- " " 10 in. x 4 ft. 6 in., solid spindle, A294.
- " " Warner & Swasey, 12 in. x 4 ft. 6 in., solid spindle, A206.
- " " L & D., 14 in. x 5 ft., solid spin., lever feed to tailstock, A176.
- Lathe, turret, 12 in. x 3 ft. 8 in.,  $\frac{3}{8}$  in. hole in spindle, A276.
- " " 13 in. x 5 ft.,  $\frac{3}{8}$  in. hole in spindle, A281.
- " " Jones & Lamson, 16 in. x 4 ft. 8 in., plain head, A275.
- " " Pearson No. 5, 15 in. swing, geared friction head, A274.
- " " 16 in. x 5 ft., plain head, draw-in chuck, A293.
- " " 18 in. x 6 ft., plain head, 15-16 in. hole in spindle, A299.
- " " 18 in. x 6 ft. 10 in., back geared, A297.
- " " American T. & M. Co. No. 1 Fox, back geared, A229.
- " " American T. & M. Co. No. 2 cabinet, A228.
- " " American T. & M. Co. No. 1 Fox, square arbor, A227.
- Milling machine, bench, back geared, hand and power, A468.
- " " Pratt & Whitney No. 1, travels 3 $\frac{1}{2}$  in., A459.
- " " Brown & Sharpe No. 12, plain, A469.
- " " Brainard, index, will cut gears up to 8 in., A458.
- " " Garvin No. 2, hand, A451.
- Planer, New Haven, 30x30 in. x 7 ft., single head, with vise, A427.
- " Pond, 30x30 in. x 8 ft., single head, with vise, A426.
- " Cincinnati, 32x33 in. x 8 ft., single head, A430.
- " Cincinnati, 36x36 in. x 10 ft., two heads, A431.
- " Betts, 72x48 in. x 20 ft., single head, A443.
- " Sellers, 14 ft., 6 $\frac{1}{2}$  in. boiler plate, A840.
- " Niles, 16 ft., 2 in., boiler plate, open ends, A428.
- Press, foot power, toggle joint, 1 in. stroke, A562.
- " heavy bench screw, 4 $\frac{1}{2}$  in. travel, A574.
- " Bliss No. 1, fly wheel, solid back, A572.
- " Stiles No. 3, plain, solid back, 1 $\frac{1}{2}$  in. stroke, A559.
- " Stiles No. 5, plain, solid back, 1 $\frac{1}{2}$  in. stroke, A557.
- " Toledo No. 17, deep gap, plain, 1 $\frac{1}{2}$  in. stroke, A556.
- " Toledo No. 4, open back, inclinable, 2 in. stroke, A575.
- Pulley block, lower block single sheave, top double sheave, A850.
- Punch and shear, bench, hand lever, scroll,  $\frac{3}{8}$  in. stroke, A538.
- " " Buffalo No. 2, hand power, A521.
- " " Niagara No. 442, 42 in., power, squaring, A525.
- " " 10 in. throat, single end, A523.
- " " 7 in. throat, single end, A517.
- " " 12 in. throat, single end, A516.
- " " 24 in. throat, single end, A518.
- Punch, shear and bar cutter, 7 $\frac{1}{2}$  in. throat, A522.
- Punch, boilermaker's, Long & Allstatter, 36 in., single end, A519.
- Screw machine, Cleveland, automatic,  $\frac{3}{8}$  in., ratchet feed, A289.
- " " Cleveland, automatic,  $\frac{3}{8}$  in., cam feed, A288.
- " " Cleveland, automatic,  $\frac{3}{8}$  in., ratchet feed, A290.
- " " Warner & Swasey No. 3, with wire feed, capacity  $\frac{3}{8}$  in., A279.
- " " Garvin, 10 $\frac{1}{2}$  in., with wire feed, capacity  $\frac{3}{8}$  in., A277.
- " " Pratt & Whitney, 13 $\frac{1}{2}$  in., with wire feed, cap. 1 in., A277.
- Shaper, Boynton & P., 6 in. crank, hand power, A406 $\frac{1}{2}$ .
- " Gould & Eberhardt, 16 in. back-geared, crank, A414.
- " Chase Co., 16 in. rack, A408.
- " Lodge & Davis, 22 in. geared rack, A425.
- " Walcott, 22 in. geared, A413.
- " Hendey, 24 in., pillar type, friction driven, A401.
- " Gould & Eberhardt, 24 in., regular type, A402.
- Shaper attachment, die, used on any miller with overhanging arm, A412.
- Screw slotter, Garvin, rotary, capacity up to  $\frac{3}{8}$  in., A804.
- " " revolving head, A296.
- " " Garvin, horizontal,  $\frac{3}{8}$  in. capacity, A859.
- Wheel press, hydraulic, capacity 72 in. diam., 12 ft. long, 250 tons, A867.

The above is only a partial list. Send for complete list.

SECOND-HAND MACHINERY

FOR SALE BY

Wm. A. Reade & Co., 402 Chamber of Commerce Bldg., Cleveland, O.

MACHINE SHOP.

Located in central New York. Has modern and good buildings, adapted for automobile or similar work. Machinery consists of a large number of machine tools, all in fine condition. This plant and business cost more than \$50,000. To a quick buyer we will sell this entire property, including land, buildings and machinery, for \$10,000.

MANUFACTURING PLANTS.

We also have the following plants to offer at exceptionally low prices: Bridge and iron works in Indiana; land and buildings only. Large foundry and machine shop in Indiana; fully equipped. Large factory and buildings in Nebraska; equipped with power and shafting. Rolling mill in New York state; running full and showing profit. Large foundry and machine shop in Ohio; foundry fully equipped. Architectural iron works in Ohio; good buildings and well equipped. Valve manufacturing factory in Ohio; new buildings and well equipped. Chain manufacturing factory in Ohio; fully equipped to commence business. Large machine shop in Ohio; equipped with machinery and tools.

FOR SALE BY

Jas. T. Cochran, - - - 949 W. 7th St., Cincinnati, Ohio.

LATHES.

26x14 engine, Ind. Iron Wks., extra heavy. 20x8 screw-cutting engine, Lathe & Morse. 19x8 screw-cutting engine, Blaisdell. 24x24x20 shafting, Wright, very heavy. 20x9 screw-cutting engine, Steptoe & McFarland. 12x5 1/2 speed, Lathe & Morse. 18x6 turret boring, Lodge & Barker. 18x10 screw-cutting engine, Lathe & Morse. 19x6 turret boring, Pratt & Whitney.

PLANERS.

27x27x7, J. H. Kerrick, iron, single head and belt, power cross, double feed, countershaft. 27x27x8, New Haven, iron, one belt, power cross, down feed, single head on rail, round hole in table, c. s.

Write for complete list of other tools.

FOR SALE BY

O. L. Packard Machinery Co., - Chicago, Ill., and Milwaukee, Wis.

PLANERS.

60x60 in. x 14 ft. 24x24 in. x 5 ft.

LATHES.

14 in. x 4 ft. 20 in. x 13 ft. 14 in. x 6 ft. 24 in. x 16 ft. 18 in. x 7 ft. 26 in. x 18 ft. 18 in. x 8 ft. 14 in. x 4 ft., Monitor. 18 in. x 10 ft. 12 in. x 4 ft., Turret. 20 in. x 10 ft.

MISCELLANEOUS.

Drill grinder, Washburn. Pipe machine, Jarecki No. 7. Miller, Lincoln. Shear, sitting, Niagara.

WANTED BY

The Philip Smith Co., - - - Sidney, Ohio.

We are in the market for the following tools: Bolt cutter, that will cut from 1/2 to 2 in., with hollow spindle. Boring mill, 2 or 3 heads, 48 or 50 in. Drill, radial, reverse gear, 4 ft. Grinder, twist drill. Hammer, Bradley, 60 lbs. Key seater, that will key-seat from 1/2 to 3/4 in., pulleys 36 in. diam., 18 in. face. Lathe, turret, power feed, hollow spindle, 18 to 20 in., for boring and facing. Planer, 2 heads, 8 to 12 ft. bed, 36x36 in.

SECOND-HAND MACHINERY

FOR SALE BY

Marshall & Huschart Machinery Co.

Chicago, Ill.

BOLT CUTTERS.

3/4 in., National, two spindle, rapid. 1 1/2 in., Acme, single head. 1 in., National, single head, rapid.

BORING MILLS.

Lucas & Gleim, horizontal. Betts, hor., 8 ft. table, 3 15-16 in. bar. Fitchburg, horizontal. 72 in., Michael, 2 swivel heads. 32 in., Newton, wheel. 76 in., Bullard, 2 heads, pract. new.

DRILL PRESSES.

Bickford No. 0, radial, tapping atch. 28 in., Bickford, b. g., power feed. Bickford No. 2, plain radial. 30, 36 & 48 in., Roos & Mill, new. 18 in., Grant, semi-radial. 42 in., Bickford, plain radial. 22 in., Pratt & Whitney, power feed.

GEAR CUTTERS.

30 in., Gould & E., spurs and bevels. 60 in., Gould & Eberhardt. 36 in., Becker-Brainerd, spurs only.

GRINDERS.

Landis, plain, 20x96 in., 10 ft. table. 20 in., Whitney, water cool. Ransom No. 5. Seters, tool.

HAMMERS.

Bradley, 100 lbs., helve. Morgan, 600 lbs., single frame, steam. Williams & White, 500 lbs., drop. Bell, 18x lbs., single frame guide, ess. with lift. Morgan, 6000 lbs., double frame, steam.

LATHES.

13x5 Robbins, r. & f. rest, h. spindle. 26x12 Draper, new. 14x5 1/2 Reed, r. & f. rest, h. spindle. 26x25 Blaisdell, compound rest. 16x4 Grant stud, taper attachment. 28x16 Draper, triple gear, new. 18x8 New Haven, r. & f. rest, s. spindle. 30x16 Finfield, comp. rest, solid spindle. 19x10 Blaisdell, comp. rest, s. spindle. 32x18 Draper, triple gear, new. 20x8 Flather, comp. rest, h. spindle. 40x16 Gleason, triple geared. 22x10 Draper, new. 42x20 Draper, triple gear, new. 24x8 Flather, comp. rest and chuck. 60 in., faceplate. 24x10 Lodge & B., plain rest, s. spindle. 86 in., faceplate.

PULLEY LATHES.

26 in., Stevens. 36 in., Niles. 36 in., Putnam. 48 in., Stevens.

MILLING MACHINES.

Brown & Sharpe No. 1, universal. Aurora No. 3, plain. Keystone No. 1, plain slab, new. Grant No. 6, Lincoln type. Grant No. 2, Lincoln type. Brown & Sharpe No. 24, plain. Aurora No. 2, plain, new.

PLANERS.

24x24 in. x 5 ft., Pond, one head. 27x27 in. x 8 ft., New Haven, 1 head. 24x24 in. x 5 ft., Whitcomb, one head. 36x36 in. x 10 ft., Atlas. 24x24 in. x 6 ft., Powell, one head. 36x36 in. x 10 ft., Whitcomb, 2 heads.

PRESSES.

Stevenson No. 3, foot. Bliss No. 21, inclinable, not geared. Ferracute, P 2. Toledo No. 75, upright, not geared. Stiles & Parker No. 5, geared.

PUNCHES AND SHEARS.

Alligator, hand, shear. Pels No. 3, portable, new. Pels No. 1, portable, new. Pels No. 4, portable, new.

SCREW AND TURRET MACHINES.

2 in., Bardons & Oliver. 42 in. x 10 ft., New Haven. Pearson No. 4. 16x24 in., Jones & Lamson. Garvin, turret lathe. 24x22 in., Jones & Lamson.

SHAPERS.

14 in., Juengst, crank. 24 in., Henty, geared. 22 in., Walcott, geared. 26 in., Walcott.

MISCELLANEOUS.

Cranes, post and electric jib. Pipe machine, Oster, 6 in. Gas furnace, No. 2. Profiler, Garvin, two spindle. Gas cyanide, No. 3. Platform scales. Nut mche. & furnace, Blakeslee, 1 in. Tumbling barrel, anvils, etc.

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