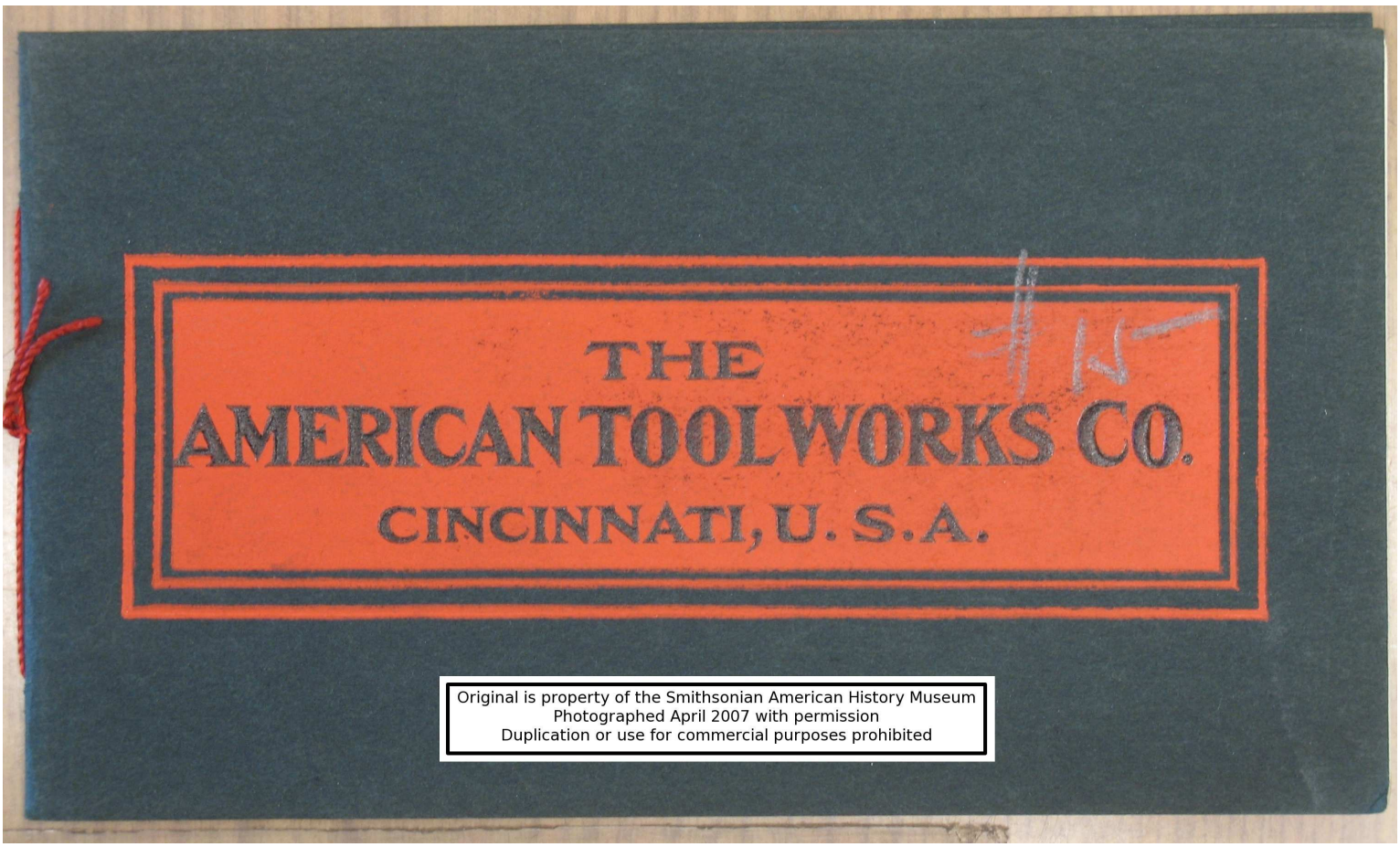
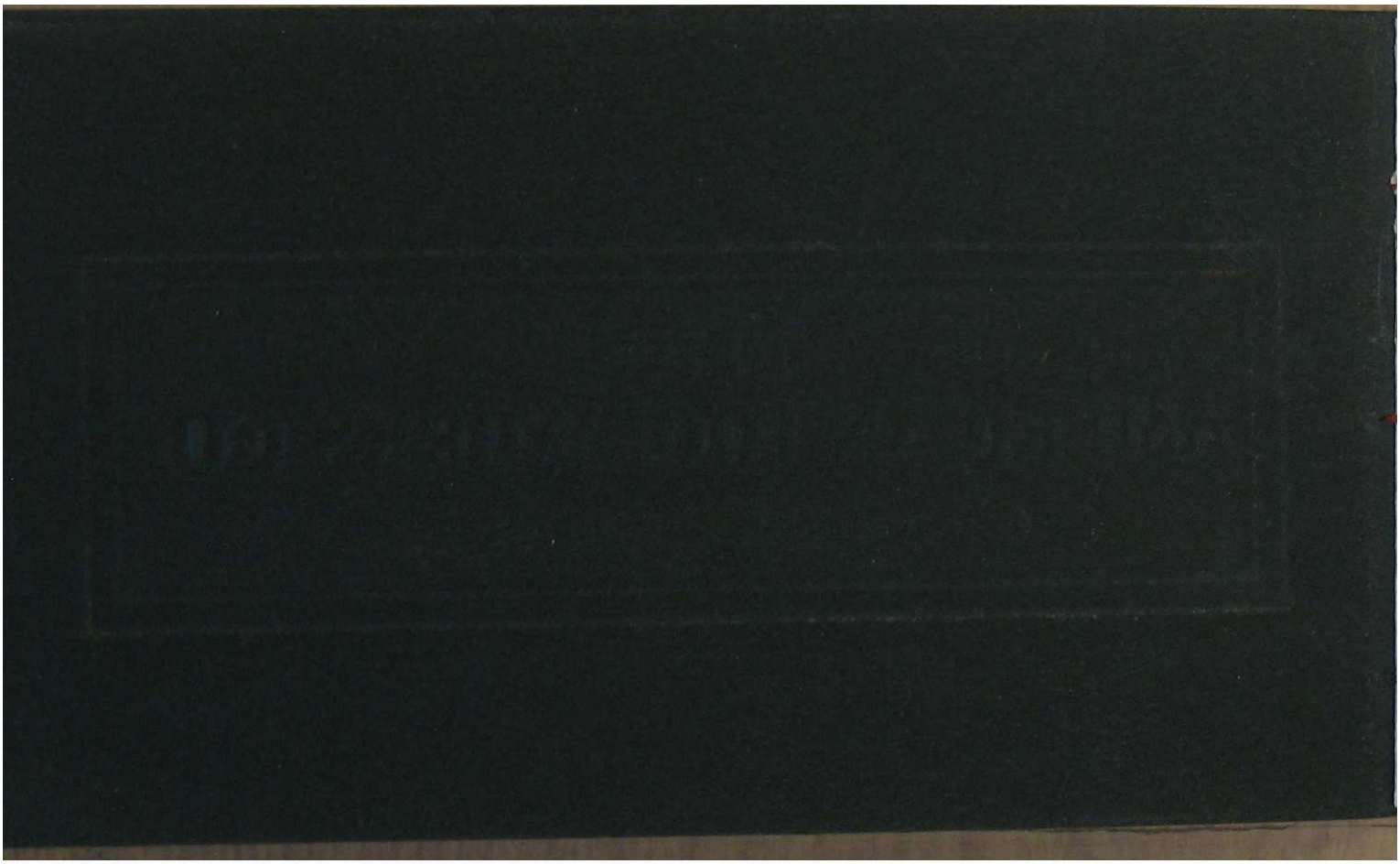




# The American Tool Works Co.

Builders of Modern High Standard

*Lathes, Planers, Shapers, Upright*
*Drills, Radial Drills, Boring Mills*

for Rapid Work Production.

Main Offices and Works, CINCINNATI, U. S. A.

CABLE ADDRESS: LATHE. CINCINNATI

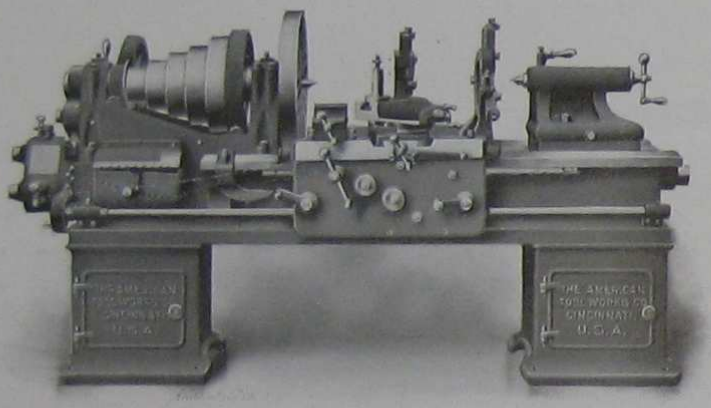
WE herewith illustrate, in miniature, the several types of improved Metal-Working Machinery of which we are designers and builders.

The recent introduction of high speed steels has revolutionized machine shop practice to such an extent that only the most advanced machines are capable of handling them to advantage. Our machines are strongly proportioned, smooth running, quick to operate and easy to handle—the greatest work producers on the market, and as such should forcibly appeal to the modern works manager.

OUR works are of such extent that each type of machine is built entirely in a separate and distinct department, devoted exclusively to that purpose, and under direct supervision of expert specialists. We are thus able to build our tools in large lots, simultaneously, under a complete system of jigs and templates and by the most modern and progressive methods.

Large illustrations, complete specifications and prices will be furnished upon application to us.

THE AMERICAN TOOL WORKS CO.



# "American" Engine Lathes

(PATENTED)

14″ 16″ 18″ 20″ 22″ 24″ 28″ 30″ 36″ 36″(Heavy Pattern) 42″ 48″ . . . BACK GEARED

24″ 28″ 30″ 36″ 36″(Heavy Pattern)42″ 48″ 52″ 60″ TRIPLE GEARED.

Built in any even length of bed desired (Belt or Motor Driven.)

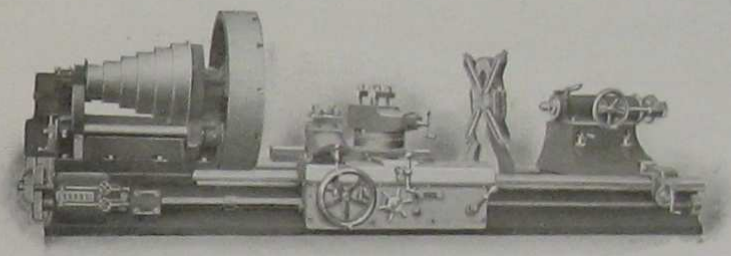
A very liberal clearance is provided in every case for actual swing over and above the nominal swing given above, to allow for irregularities in castings, and so on.

Steel gears are used wherever necessary. All gears are coarse pitch and wide face, cut from the solid.

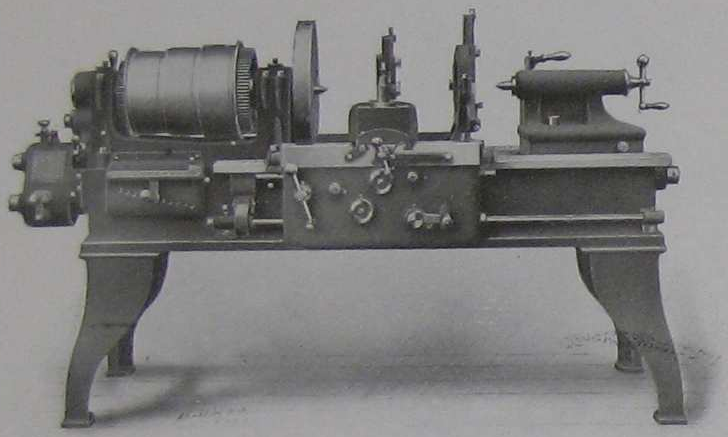
# "American" Engine Lathes

(PATENTED)

Sizes and dimensions on page opposite.



These Lathes are of thoroughly new design throughout, and are exceptionally strong and powerful, and adapted to the greatly increased strains imposed upon lathes by the present extensive use of special high-speed tool steels. They are absolutely beyond comparison in their facilities for rapid work production by the most progressive methods. They are equipped with a new, patent rapid change gear mechanism which gives a great range of changes for feeding and screw cutting, each change instantly available while the machine is in full operation, without removal of a single gear.



# "American" High-Speed Lathe

18″ 20″ 24″

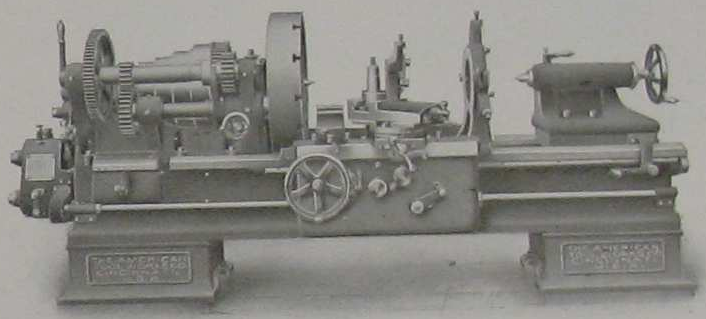
Designed and built for use with special high speed steels; is provided with such feed power that the limit of work is placed at the tool and not at the belt. Recent tests produced a cutting speed of 425 feet per minute. For all practical purposes, however, we recommend a speed of 150 to 200 feet per minute.

If you have to do much duplicate turning we shall be glad to give estimates on receipt of your blue prints. A circular giving data of tests and other information sent on request.

# "American" Engine Lathe

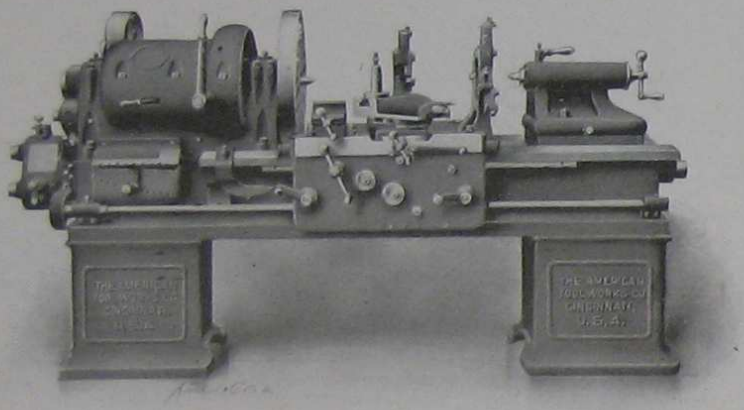
WITH
TRIPLE GEARED HEAD.

24″ 28″ 30″ 36″ 42″ 48″



The illustration shows a 30-inch "American" Lathe equipped with triple geared head. We are prepared to equip any of the above-mentioned sizes in similar manner.

Triple gears are of slip-gear type, readily engaged, and are coarse pitch and wide face. Ratio of gearing is calculated for great power.



# "American"

MOTOR DRIVEN

# Engine Lathe

The all-geared friction head is a complete unit, to which any type of motor (constant or variable speed, single or multiple voltage) may be readily connected by being set on top or at the rear of gear casing. The mechanical speed changing device gives a wide range of spindle speeds, each obtainable instantly while the machine is in operation. This construction is extremely simple, powerful and efficient, providing thorough lubrication and easy access to all working parts.

The machine is also suited to belt drive from countershaft, as in the illustration, and the great flexibility of this construction will permit a machine thus installed as a belt-driven lathe to be readily converted into a motor-driven lathe at any future time.

# Crank Shapers

WITH EXTENSION BASE.

16″ Single Geared

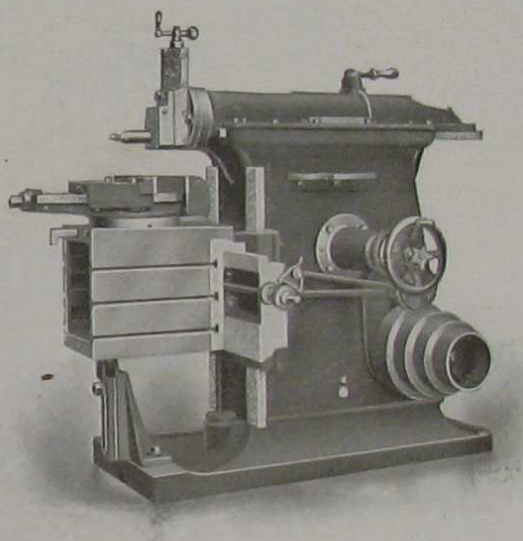
16″ 18″ 21″ 24″ 28″ Back Geared

Belt or Motor Driven

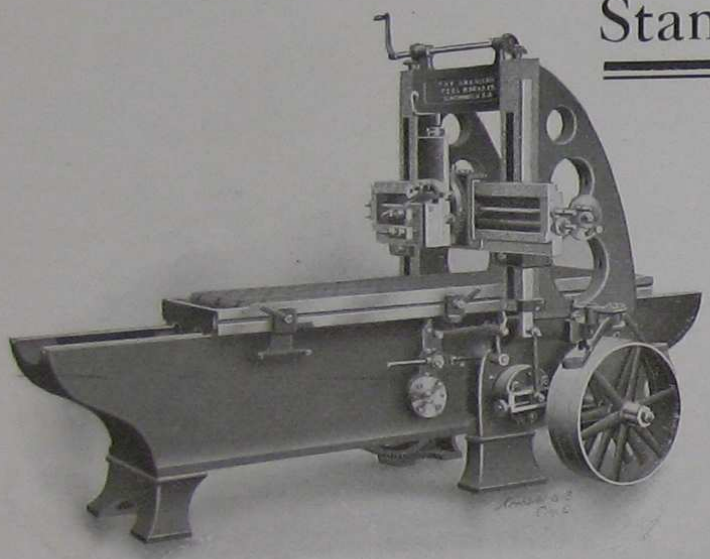
Powerful Stroke and Quick Return.

Stroke can be changed at will without stopping the machine. Range of feeds is positive and very great. Large key-seating capacity. Detachable table.

Power down feed, circular attachment, mold maker's vise and other attachments can be furnished, when specified, at extra cost.



# Standard Metal Planers



22″x 22″ 24″x 24″ 26″x 26″
28″x 28″ 30″x 30″ 33″x 33″
36″x 36″ 42″x 42″ 48″x 48″

WIDENED METAL PLANERS.

36″x 26″ 36″x 30″ 42″x 36″
48″x 36″ 48″x 42″ 56″x 42″
60″x 42″ 60″x 48″

With even lengths of bed and table up to any desired length

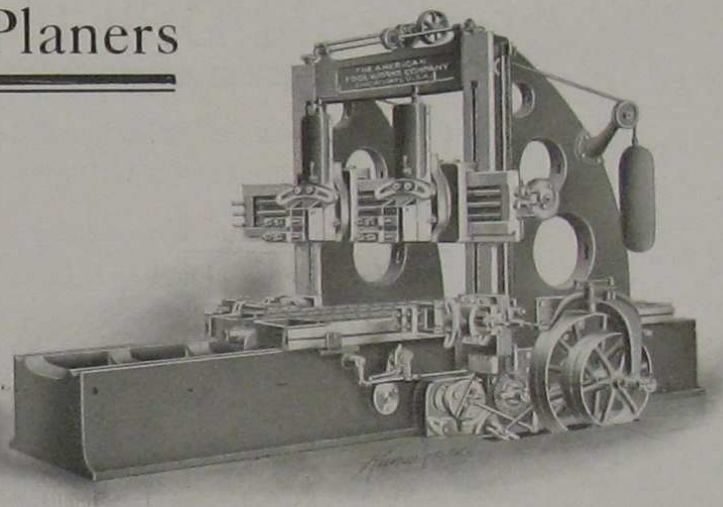
Belt or Motor Driven.

Built with one, two, three or four Heads.

# Standard Metal Planers

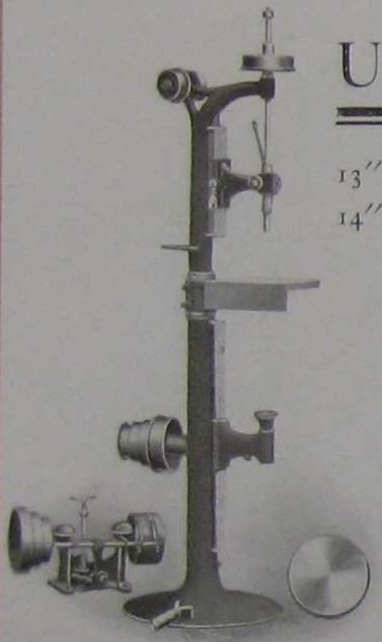
Sizes and dimensions on page opposite.

These machines are strongly proportioned, exceptionally accurate, and easy and rapid in operation. Built to cut at speeds most suitable; operating in our works at a cutting speed of 20′ to 60′ per minute.



Belt or Motor Driven.

With one, two, three or four Heads.



# Upright Drill Presses

13″ Sensitive, Single Table, 1, 2 and 3 Spindle

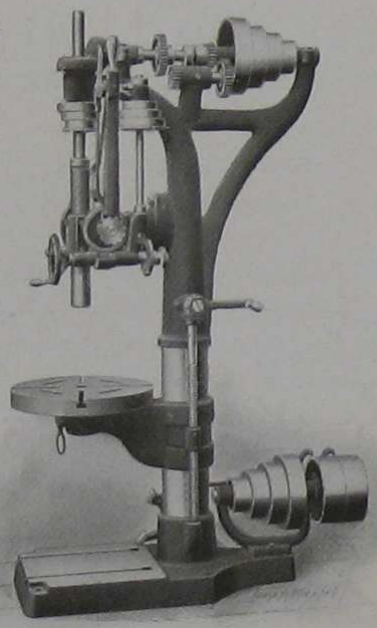
14″ Sensitive, Double Table

20″ 21″ National, Stationary Head

(1) with wheel and lever feed; (2) wheel and lever and automatic power feed; (3) wheel and lever feed and back gears; (4) wheel and lever and power feeds, back gears and automatic stop.

22½″ National, with back gears, power feed and automatic stop.

Belt or Motor Driven.



# Standard Upright Drill Presses

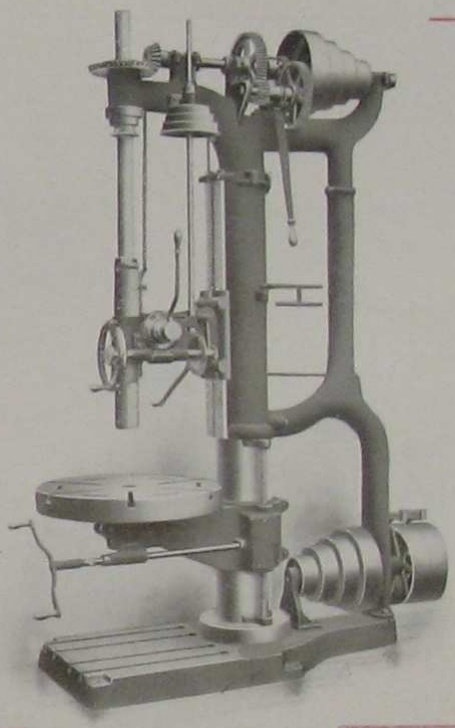
25″ 28″ 32″ 36″ 42″

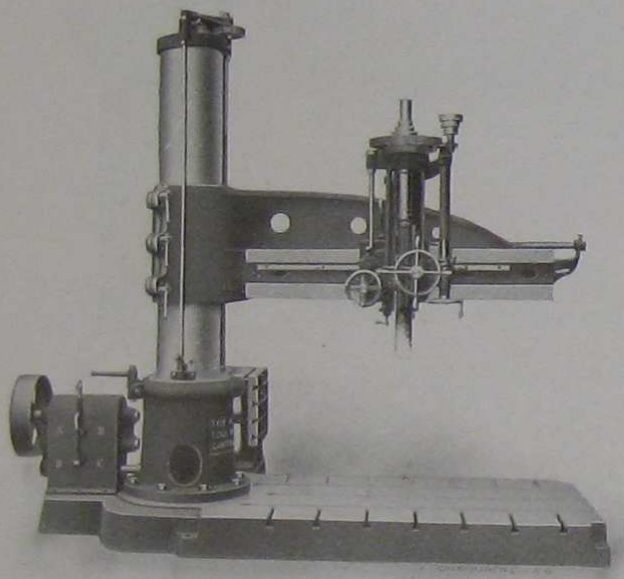
With gibbed sliding head, automatic power feed, back gears, automatic stop and graduated sleeve. Quick return to spindle.

Strongly back braced for resistance of heavy strains.

Tapping attachment, compound table and other attachments furnished, when specified, at extra cost.

Belt or Motor Driven.





# Radial Drills

3′ 4′ 5′ 6′ 7′ Arms

With Tapping Attachment Built in the Machine.

Plain, Half and Full Universal.

Cone Pulley or Speed Box Drive.
Belt or Motor Driven.

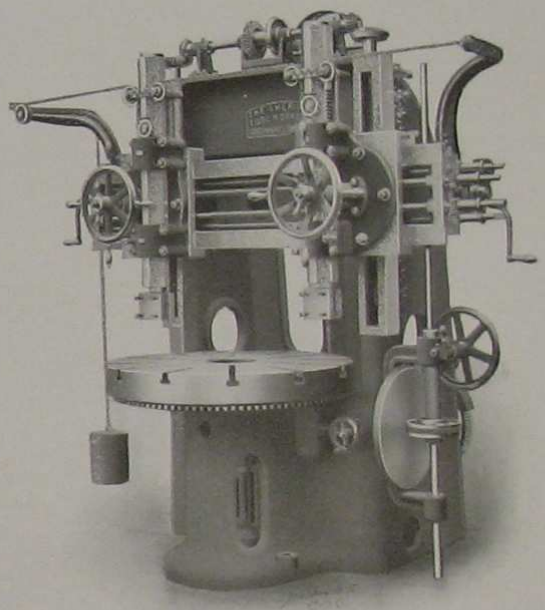
An unusually heavy and substantial tool, with capacity for continuous hard service at fast speeds and heavy feeds.

All operating levers and handles are located at the front of the machine, under easy control of the operator.

# 37″ Boring and Turning Mill

Belt or Motor Driven

Frame is cast in one piece, consisting of bed, housings and top brace. The machine is, therefore, self contained. Boring bars have independent feeds at any angle; are of special steel (not of cast iron), octagonal in section. The racks by which they are operated are integral with the bars. The disc feed gives minute variations not obtainable through gearing, and is so constructed that it is capable of feeding up to, and transmitting, the limit of belt power.



DSI

Press of C. J.
Krehbiel
& Co.

Cincinnati
Ohio, U.S.A.