

Y2155

**Y2155—
"LITTLE GIANT" HACKSAW
MACHINE**

A useful machine for the workshop. Sturdily constructed. Will cut bars of all sections, tubes, angles, channels, etc.

VICE: The vice is of solid screw type.

DRIVE: The machine is driven by a single pulley drive operated by a clutch.

- Capacity 5 in.
- Size of blades 12 in. x 1/2 in.
- Size of pulley 10 1/2 in. x 2 in.
- Maximum speed 60 revs. per minute
- Length of stroke 5 1/4 in.
- Price **£11/-/-**

**Y2156—
"HERCUS" HIGH SPEED
HACKSAW MACHINE**

Motor Driven.

Capacity 6 in. x 6 in.

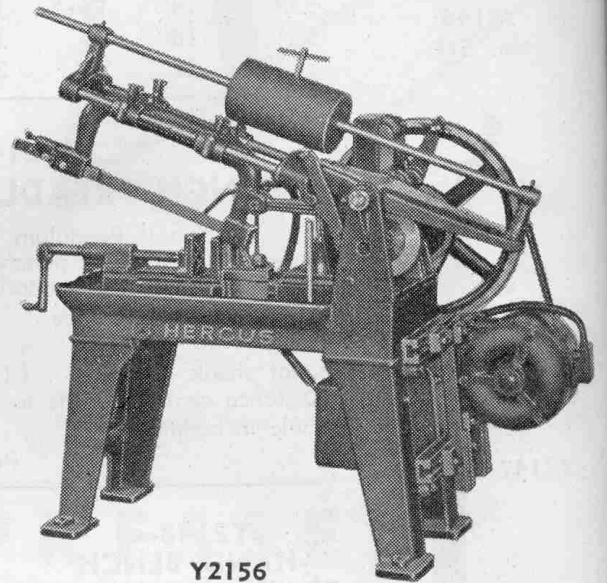
A sturdy, fast cutting, accurate machine designed to cover the wide range of work found in the general engineer's workshop, as well as repetition and maintenance shops. Will cut bars of all sections, also tubes, angles, channels, girders, etc.

The saw blade is lifted automatically on the return stroke. The pressure on the saw is regulated by a weight.

The vice is of the heavy screw type, the back jaw being adjustable to cut angles up to 45 degrees.

- Stroke of saw 5 1/4 in.
- Takes blades 10 in. to 14 in.
- Speed 120 strokes per min.

Price **£68/4/-** (Motor extra)



Y2156

**Y2157—
ABRASIVE CUT-OFF MACHINE**

Uses an abrasive wheel for cutting steel. An exceptionally smooth cut is obtained with little burr, which in many cases eliminates a second operation.

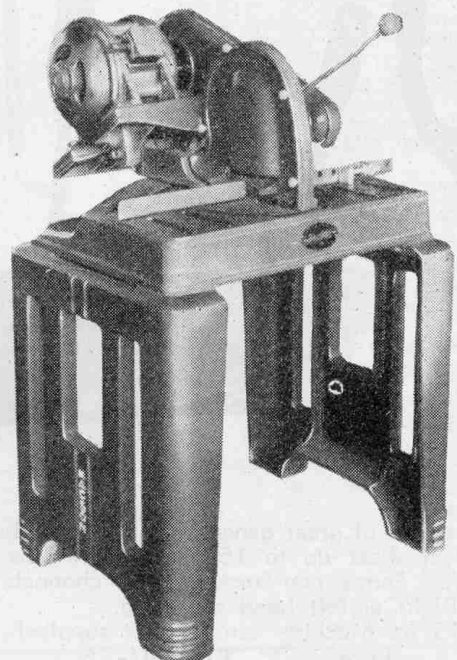
Capacity:

High Speed Steel—Bars and sections up to the equivalent of 3/4 in. solid round stock.

Cold Rolled Steel—Bars and sections up to the equivalent of 3/8 in. solid round stock.

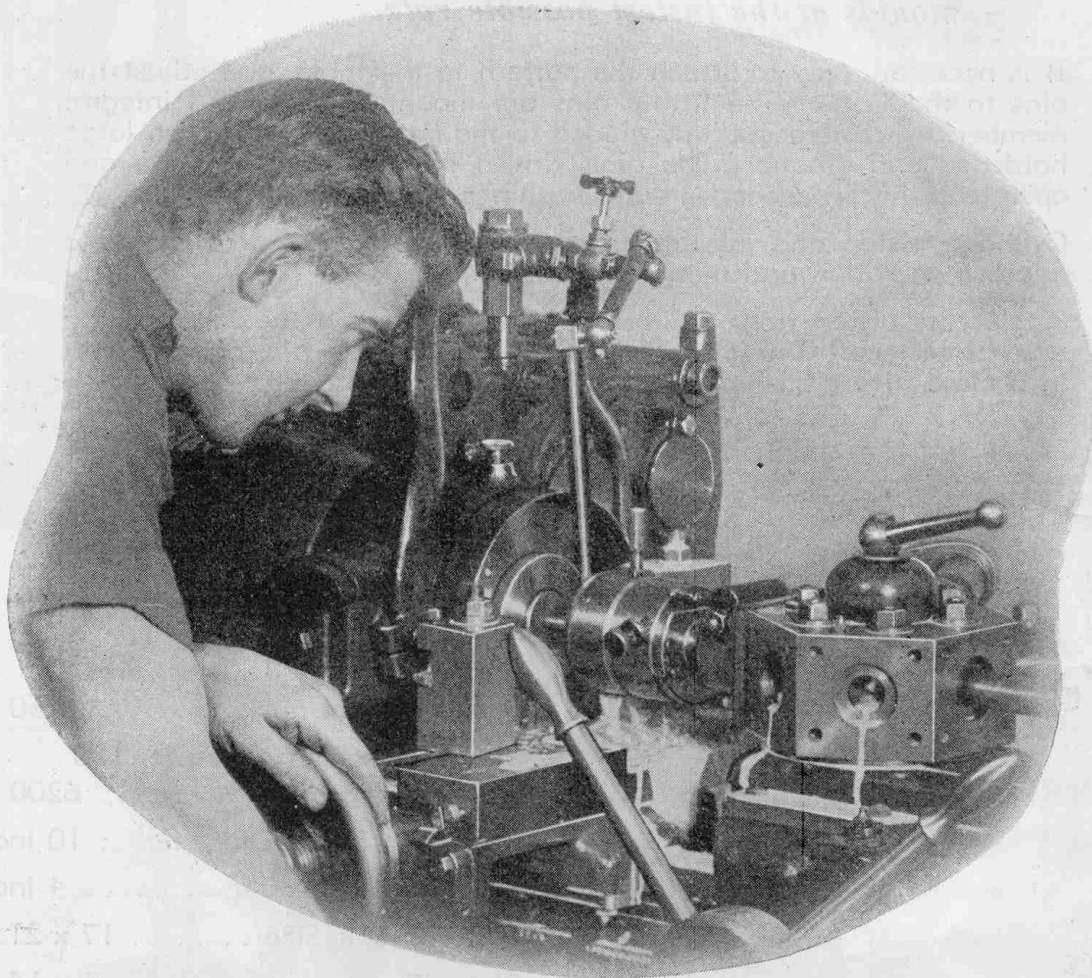
Specifications:

- Spindle speed 4000 r.p.m.
- Surface speed 10,500 f.p.m.
- Wheel diameter 10 in.
- Arbor hole 5/8 in.
- Wheel collar size . . 3 1/2 in. and 5 in. diameter
- Height of table from floor 32 in.
- Power required when using Abrasive Wheel, 5 h.p.
- Power required when using Metal Saw Blade, 3 h.p.



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MACHINE TOOLS



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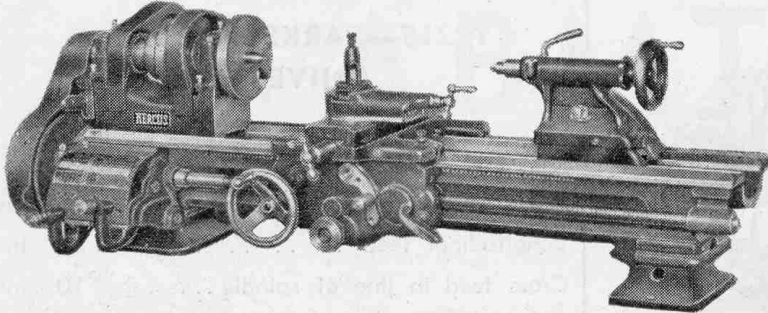
MERCHANDISING EXPERIENCE gained over nearly 90 years of selling to Engineering and Allied Trades throughout Australasia has given us practical knowledge of what is required to meet Industry's Machine Tool Needs.

LABORATORY PERSONNEL AND EQUIPMENT, both of the highest order, is used to find new ways of improving metals and methods.

As our Laboratory exists for consultation and co-operation, from casting to the final process, every stage in the manufacture of a "MACSON" Lathe is thus planned to develop the most effective MACHINE TOOL to meet Industry's need.

The following section sets out, in outline, what McPherson's Ltd. and Associated Machine Tools Australia Pty. Ltd. have had recently produced, either in our Works or to our requirements in outside shops. Full particulars of any specific machine are available on request.

Y2217—

"HERCUS" LATHE

**9 in. SWING
VEE-BED
LATHE**

Built to handle efficiently the machining of small work in workshops, toolrooms, garages, technical schools. Admits 21 ins. between centres.

Model A (illustrated) is a machine with a quick change gear box and fully automatic apron, with friction clutch to operate power longitudinal or cross feeds.

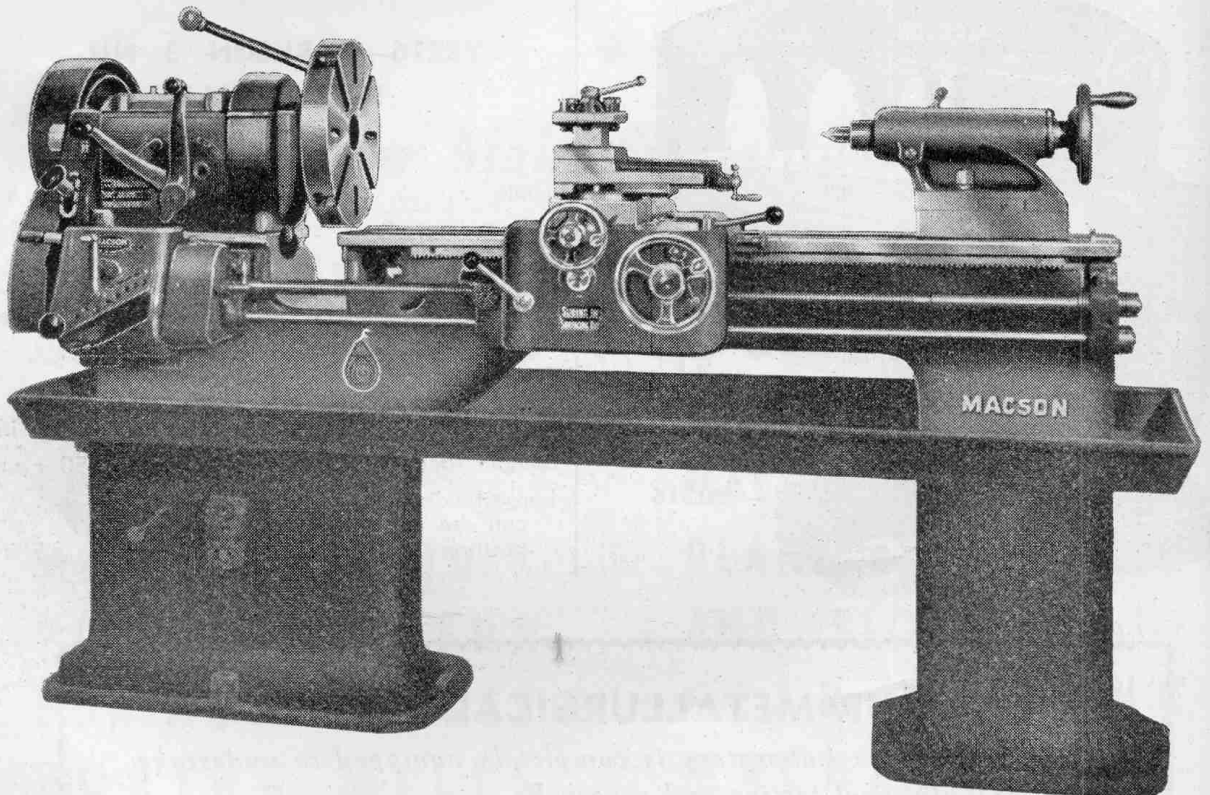
Other Models are available with change gear arrangement, having hand cross feed and power longitudinal feed.

Also available mounted on steel cabinet or cast iron legs.

Y2218—

"MACSON" LATHE

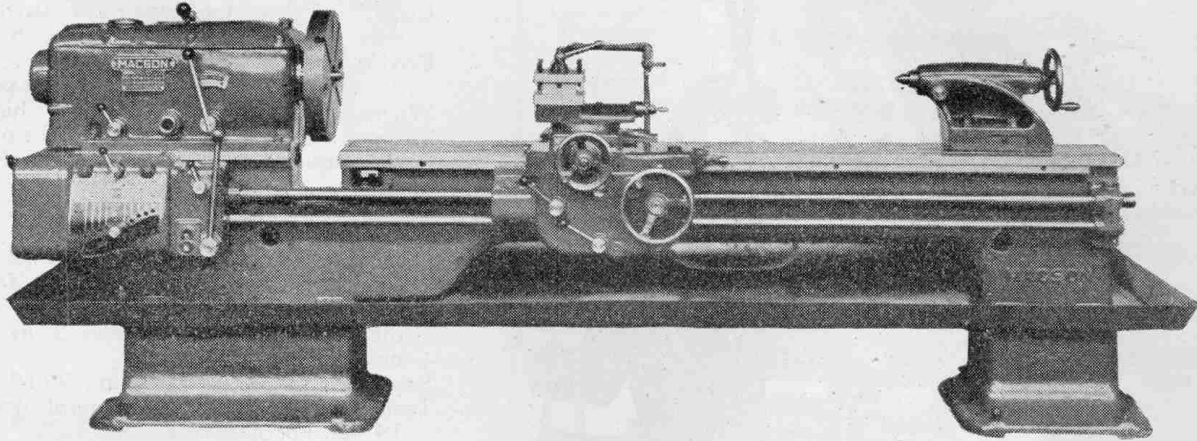
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7 in. CENTRE (14 in. SWING) ALL-GEARED HEAD — GAP BED — PLAIN BEARINGS, SLIDING, SURFACING AND SCREWCUTTING

FULL PARTICULARS AVAILABLE ON REQUEST.

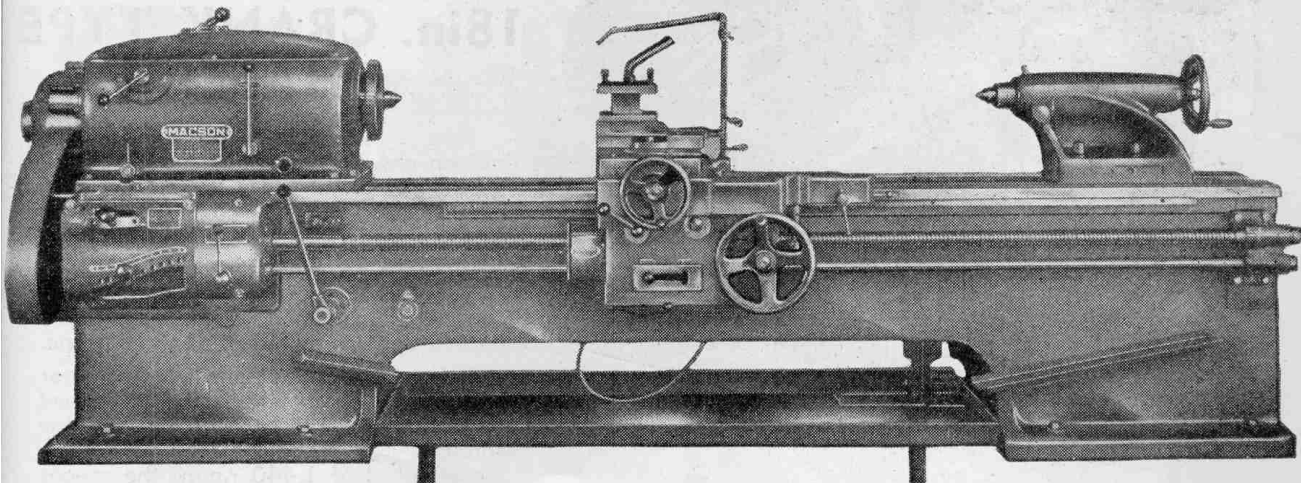
"MACSON" LATHES



Illustrated above is the
Y2219—"MACSON" 8½ in. CENTRE (17 in. Swing) ALL-GEARED HEAD, ROLLER
BEARING, SLIDING, SURFACING & SCREW - CUTTING GAP - BED LATHE.

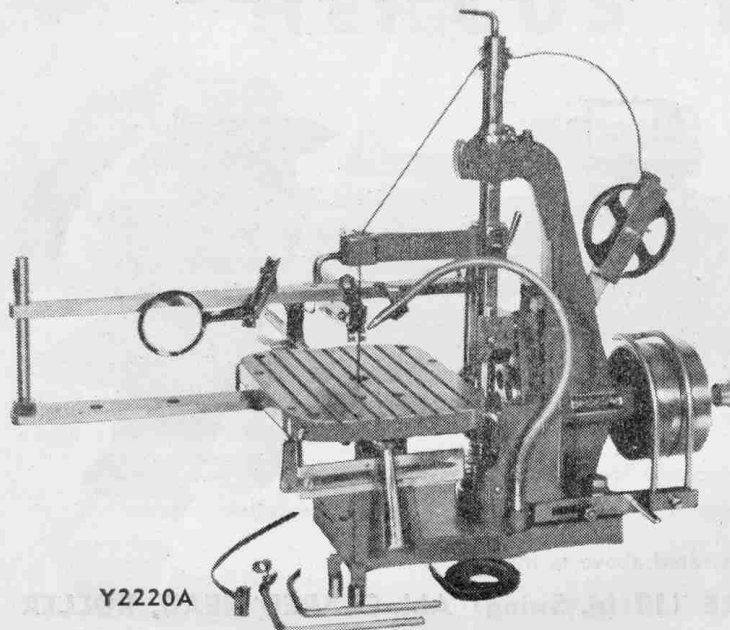
Full particulars and prices on application.

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Y2220 — "MACSON" 12½ IN. CENTRE (25 in. Swing) ALL-GEARED HEAD,
ROLLER BEARING, SLIDING, SURFACING & SCREW CUTTING STRAIGHT-BED
LATHE.

Y2220A—
DIEMAKER'S SAWING AND FILING MACHINE



Y2220A

Dimensions:

Centre of the table to the vertical shaft 5 in.
Driving Speed, for general work 250 r.p.m.
Where chromium die steels for high-speed steel are mostly used 200 r.p.m.
Power required ¼ h.p.

Sawing Work Capacity:

Maximum thickness: 2 in. steel.
Maximum area: Die plates up to 12 in. square, where the measurement from the sawn line to the outside of the die block does not exceed 5 in. at any point.
Saws: ¼ in., 3/16 in., ⅛ in., 1/16 in.
Teeth per inch: 22 for general work; 14 for hogging cuts.

Filing Particulars:

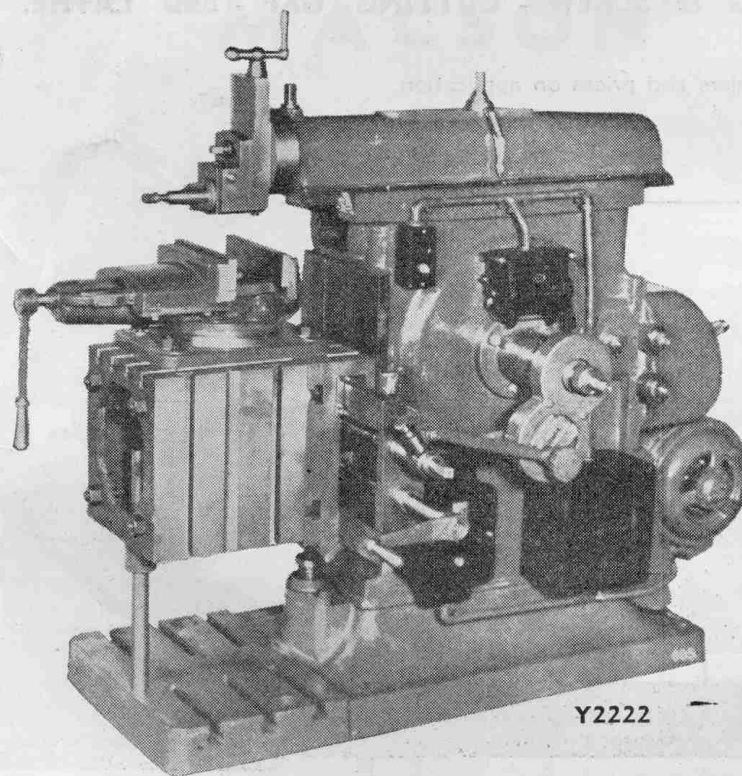
Maximum width of file: ⅝ in.
Lengths: 6 in., 7 in., 8 in., 9 in.
Special file holder inserts can be had for using very small files.
Maximum depth filed: 5 in.

Standard Equipment:

One Saw Bridge complete. One Saw Feed Unit, One Magnifying Glass Unit. Two Saw Insets. Two Filing Insets. One Saw Bit Extension. One length of chain. One Flexible Air Tube. One Saw Magazine.

Y2222—

18in. CRANK TYPE SHAPER



Y2222

Ram is actuated by a powerful link motion ensuring maximum power at any position of the stroke. The Rocker Arm has a shaped head which permits shafts to be passed right through the machine for keyway cutting, etc.

Tool Head: Is mounted on a graduated swivelling base and is locked in any desired position by means of an eccentric.

Drive: Is by Vee Belts from a motor (not supplied) mounted on a machined plate fitted to the back of the machine through a 4-speed gearbox. With a motor speed of 1,440 r.p.m. the speeds of the ram are 18, 30, 59 and 110 strokes per minute respectively.

DIMENSIONAL SPECIFICATIONS:

Stroke —Maximum length	18 in.
Table —Top (length x width)	16 in. x 12 in.
Side (length x depth)	14 in. x 12½ in.
Horizontal travel on side	20 in.
Vertical travel	1½ in.
Admits on top	15 in.

Toolbox —Vertical adjustment	5 in.
Speeds obtainable	18—20—59—110
Swivel Base Vice —Width of jaw	9½ in.
Depth of jaw	2½ in.
Vice open	10 in.

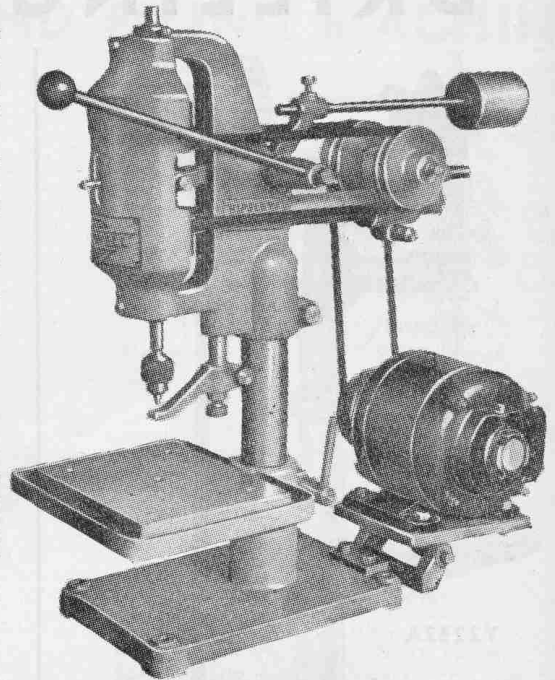
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Y2235A—"HIPSWELL" TAPPING MACHINE MODEL 0316

A Motor-driven Tapping Machine rated for steel at $\frac{1}{8}$ in. and for brass or cast iron $\frac{3}{16}$ in., with 2 spindle speeds of 1,000 and 1,400 r.p.m. The spindle is driven through forward and reverse cone clutches controlled by a balanced hand lever.

A single-phase A.C. 240 v. 1,430 r.p.m. motor is usually supplied, and the machine is entirely self-contained and only needs to be bolted down and connected to a convenient electrical power point.

Overall dimensions: Height 27", Length 20", Width 10 $\frac{1}{4}$ ".

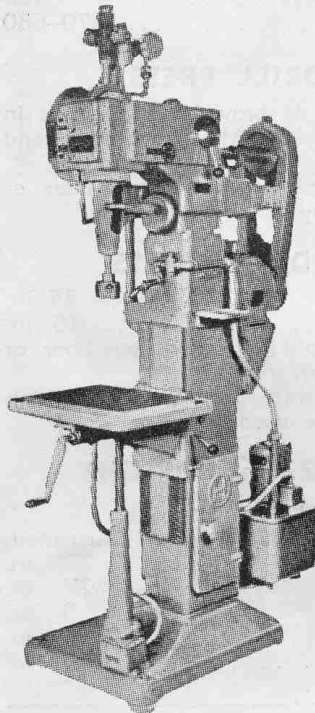


Y2235A

Y2236 — "HIPSWELL" HIGH PRODUCTION AUTOMATIC TAPPING MACHINE

A 3-speed motor-driven high production tapper having the reversing motor and lead screw principle of driving and retracting the tap.

Has a capacity for continuous production of $\frac{1}{2}$ in. Whitworth in steel and $\frac{5}{8}$ in. Whitworth in brass or cast iron and can be operated either as a fully automatic or semi-automatic machine.



Y2236

The standard tapping speeds are 180, 270 and 360 r.p.m. All electrical switch and control gear is built in, thus making it a compact and entirely self-contained unit.

Tapping Depth: 2 $\frac{1}{4}$ in.
Maximum Spindle Travel: 3 $\frac{1}{2}$ in.

Size of Table: 15 in. x 12 in.
Rise and Fall of Table: 15 in.
Spindle centre to column: 8 in.

Maximum distance from chuck to table in lowest position: 21 in.

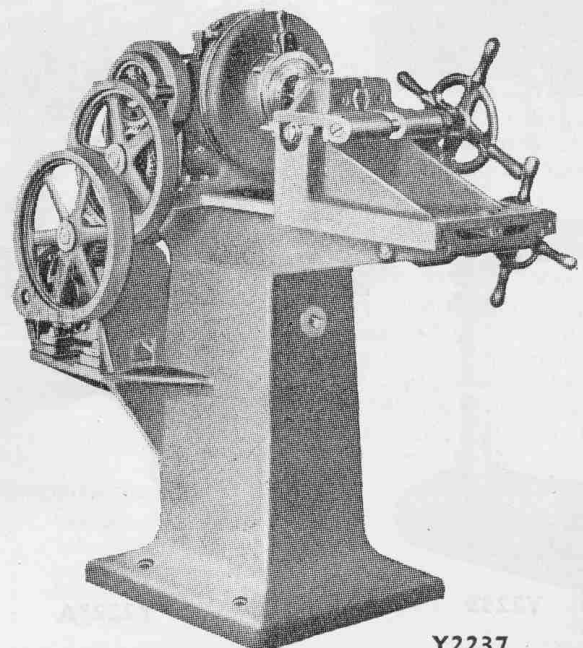
Height: 72 in.
Width: 20 in.
Length: 42 in.

TAPS: High speed steel ground thread machine taps (see page 131) with spiral flutes are recommended for best results and for minimum power input. Ordinary hand taps are not recommended.

Y2237— PIPE SCREWING MACHINES

1/4 inch to 2 inch
also
1 inch to 4 inch

Full particulars and illustrated leaflets on request.



Y2237