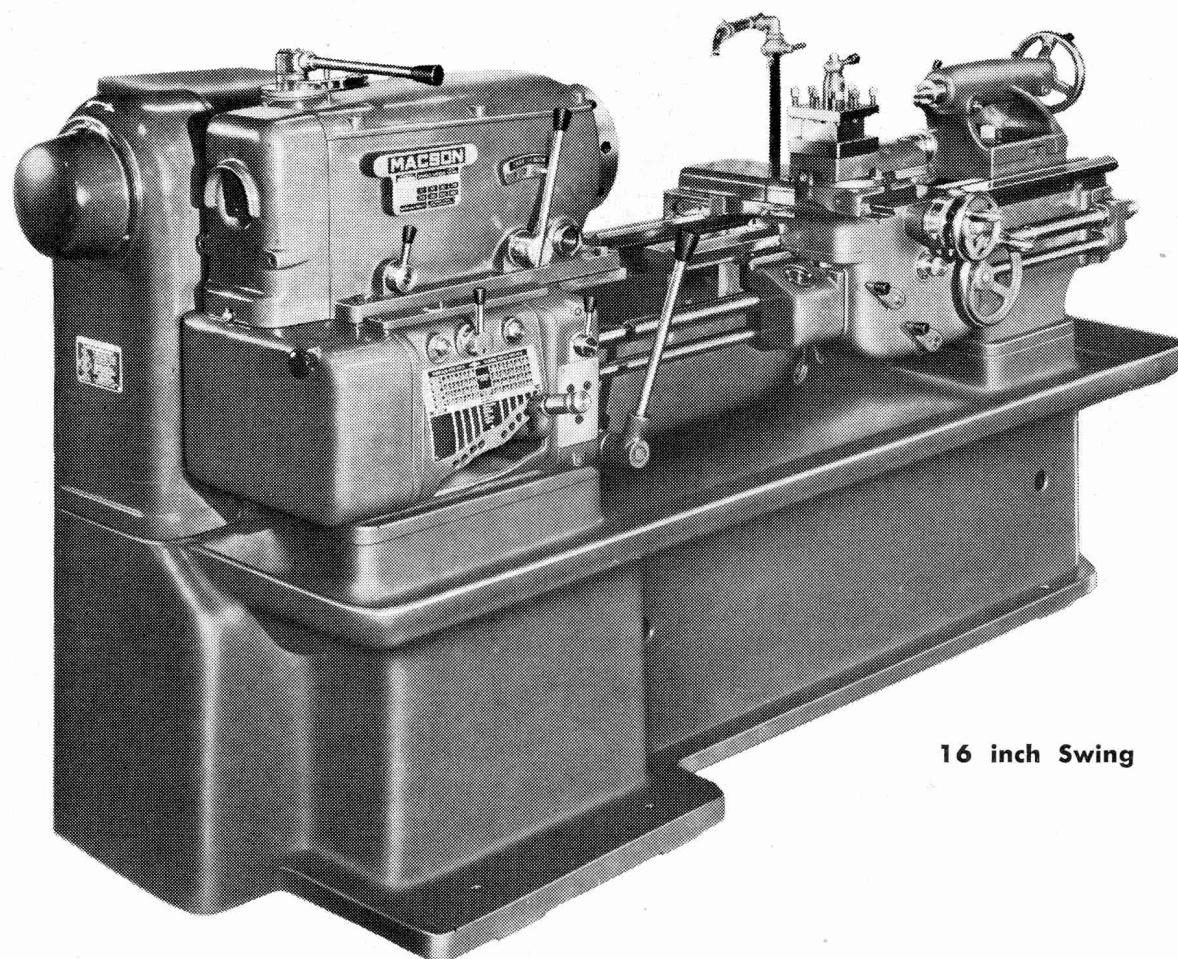


**177****F660**

MACSON LATHES

Thousands of Macson Lathes all over the Commonwealth have given splendid service in Engineering Works, Dockyards, Railway Repair Shops, Garages and Ships.



16 inch Swing

The Macson Lathe, in any year and in any size, has always been the best lathe in its price class, but it is still the subject of continual development to maintain its leadership.

Macson Lathes are available in a wide range of standard sizes as listed:

16 in. Swing Roller Bearing Straight Bed.
16 in. Swing Roller Bearing Gap Bed.
18-21 in. Swing Roller Bearing Gap Bed.
18-21 in. Swing Roller Bearing Straight Bed.
18-21 in. Swing Copying Lathe.
25 in. Swing Roller Bearing Gap Bed.
25 in. Swing Roller Bearing Straight Bed.

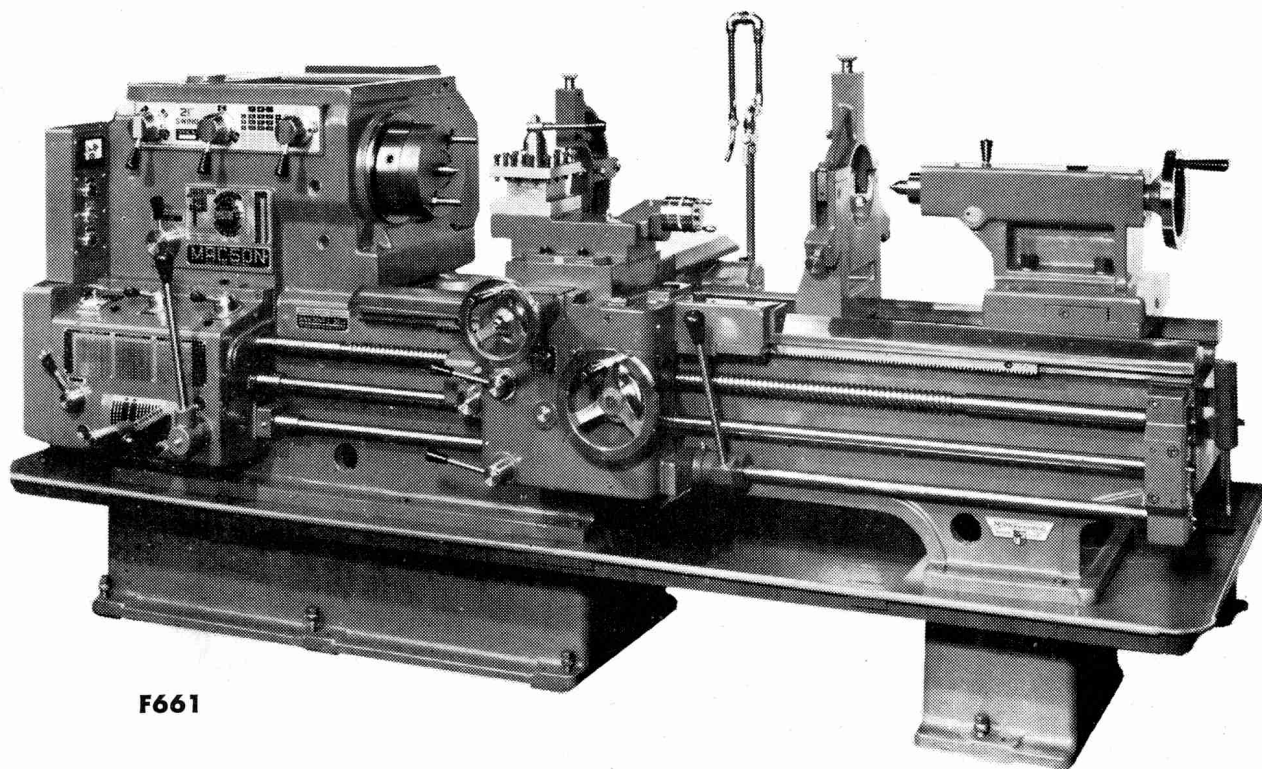
25 in. Swing Copying Lathe.
30 in. Swing Roller Bearing Gap Bed.
30 in. Swing Roller Bearing Straight Bed.
30 in. Swing Copying Lathe.
38-43 in. Swing Roller Bearing Gap Bed.
38-43 in. Swing Roller Bearing Straight Bed.
38-43 in. Swing Plain Bearing Gap Bed.
38-43 in. Swing Plain Bearing Straight Bed.

Complete specifications for all Macson Lathes available on request.



MACSON LATHES

18 in. and 21 in. Swing



F661

Macson 18" and 21" Swing Lathes, in addition to regular Macson features, include these advantages:

- 18 spindle speeds in ranges up to 1600 r.p.m.
- More power. Ranges up to 15 h.p.
 - Large diameter hole through main spindle.
 - Precision Roller Bearing Spindle.
 - Multi disc brake.
 - Built-in horsepower meter.
 - Cutting speed calculator.
- Inverted asymmetric Vee guide ways.
- Wide, deep section bed with diagonal bracing.
- Wide range of feeds and threads, including metric pitches.
- Sensitive feed trip on apron.
- Large diameter hardened tailstock spindle.
- Wide range of extra equipment.

The Macson 18" and 21" Swing Lathes can be supplied with Gap or Straight Beds, and also as Hydraulic Copy Turning Lathes. Flame hardened bed ways are available on both Gap and Straight Beds, and are standard on Hydraulic Copy Turning Lathes.

F662—"HERCUS" 9 in. SWING VEE BED LATHE 179

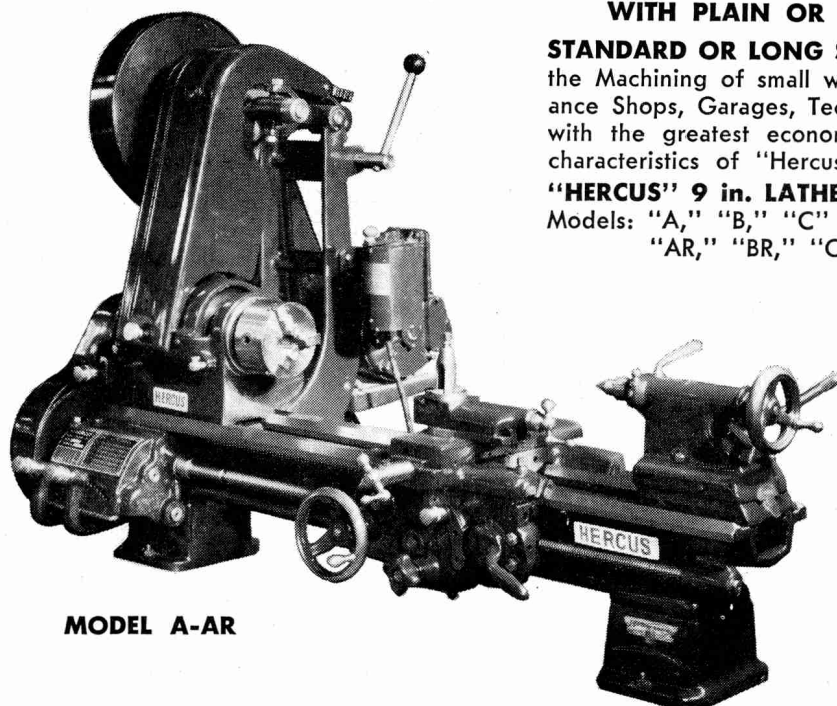


WITH PLAIN OR ROLLER BEARING HEADSTOCK

STANDARD OR LONG SERIES BED is built to handle efficiently the Machining of small work in Workshops, Toolrooms, Maintenance Shops, Garages, Technical Schools, etc. Accuracy, together with the greatest economy in power and floor space are the characteristics of "Hercus" Lathes.

"HERCUS" 9 in. LATHES are available with 40 or 49 in. Beds. Models: "A," "B," "C" (Plain Bearings).

"AR," "BR," "CR" (Roller Bearings).



MODEL A-AR

Tray and Stand available as extra.

ASK FOR SPECIAL FOLDER GIVING FULL PARTICULARS OF "HERCUS" LATHES

MODEL "A" or "AR" Lathe is fitted with quick change gear box with automatic feeds by friction clutch to both longitudinal and cross motions.

Belt guards are available to cover either or both belts of both types of unit drives on any model of lathe. Motor belt guards are of fibreglass, fitting over a backplate and quickly removable to provide access to the belt.

MODEL "B" or "BR" is similar to above but without quick-change gear box.

MODEL "C" or "CR." The changes of feeds and threads are obtained through the gear trains. The machine incorporates hand feed to the cross slide and power longitudinal feed to the saddle.

PRINCIPAL DIMENSIONS

Swing over Bed 9½ in.
Swing over Saddle 5½ in.
Length of Bed 40 in. or 49 in.
Width of Bed 6 in.
Admits between Centres 21 in. or 30 in.
Diameter of Hole through Spindle Clear ¾ in.
Size of Centre No. 2 Morse Taper

Range of Speed 60-700 R.P.M.
Speeds available 60, 81, 112, 176, 280, 370, 515, 700 R.P.M.

UNIT DRIVE, TWO SPEED

Number of Speeds 16
Range of Speeds 40-1,050 R.P.M.
Speeds available — "S" 47, 61, 86, 118, 215, 280, 395, 540 R.P.M.
Speeds available — "H" 92, 120, 170, 230, 420, 550, 770, 1,050 R.P.M.

UNIT DRIVE, SINGLE SPEED

Number of Speeds 8

STANDARD EQUIPMENT includes necessary change wheels, catch-plate, screw-cutting chart, centres, centre sleeve and working spanners.

LIST OF OTHER EQUIPMENT AVAILABLE FOR HERCUS 9" LATHE

Handwheel Draw-in Collet Attachment (3 pieces).
Set of Collets ⅜" to ½" in ⅛" steps.
Extra Change Wheels for cutting metric threads.
Models "A" and "C".
Faceplate.
Miller Cutting Arbor.
Taper Turning Attachment.

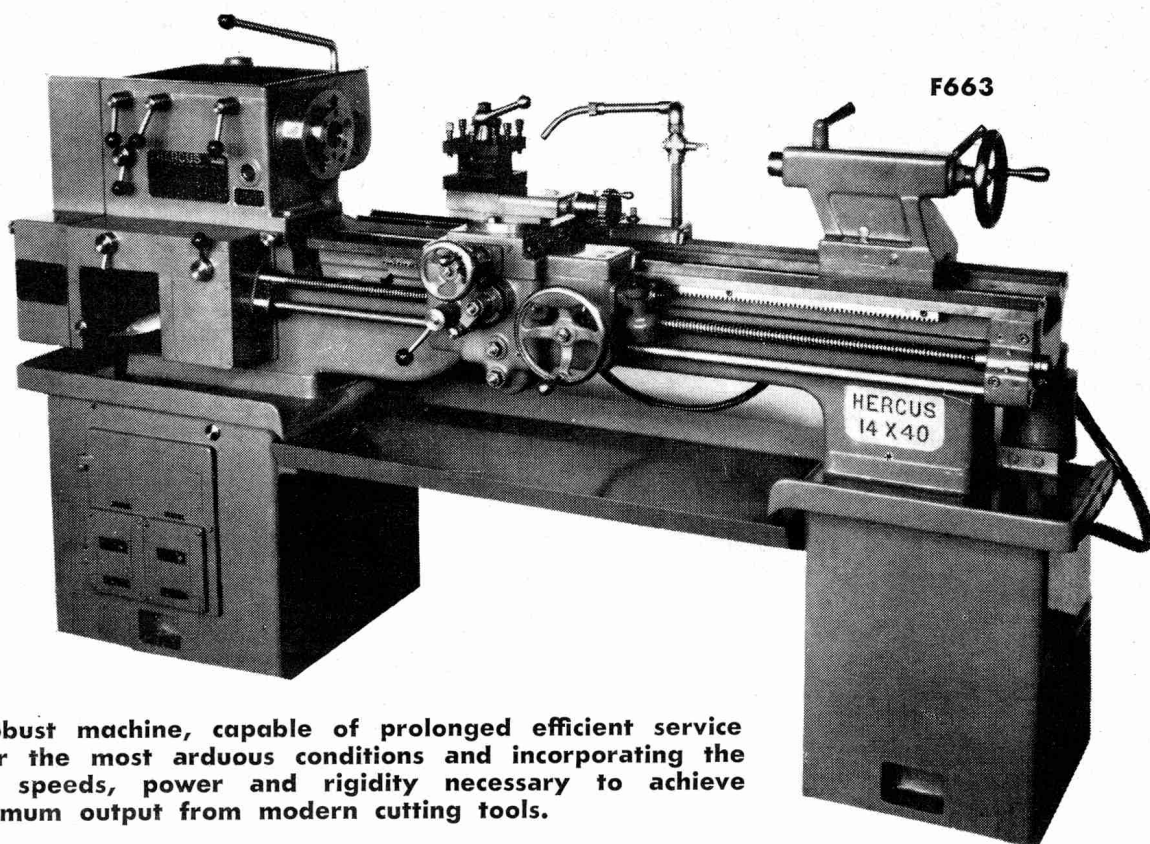
6-position Saddle Stop.
Quick Acting Collet Attachment.
Drip Can and Stand.
Fixed Steady Rest.
Travelling Steady.
Countershaft.
Legs and Tray.
Screwed Backplate.
Milling Attachment.
Micrometer Saddle Stop.
Range of Special Centres.

Dial Thread Indicator.
7 ⅜" diam.
Square Turret.
Square Turret Indexing Type.
Hexagon Turret with Turret holes rough bored.
Quick Cut-off Slide.
Boring Table.
Wood Turning Equipment.
Belt Guards.

180



"HERCUS" 14 in. SWING SLIDING, SURFACING & SCREWCUTTING LATHE



A robust machine, capable of prolonged efficient service under the most arduous conditions and incorporating the high speeds, power and rigidity necessary to achieve maximum output from modern cutting tools.

SPECIFICATIONS

Swing over Bed	14"	Speed of Driving Pulley, R.P.M.	530
Swing in Gap	20"	Screw Threads available (37 changes)	3 — 48 T.P.I.
Length of Bed	72"	Feeds available (37 changes)004" — .068"
Admits between Centres	40"	Top Slide Travel	3"
Admits in Front of Faceplate (Gap Piece out)	4 $\frac{7}{8}$ "	Dia. of Standard Faceplate	12"
Hole through Spindle	1 $\frac{3}{4}$ " (Clear)	Capacity of Stationary Steady	3 $\frac{1}{2}$ " dia.
Taper of Headstock Spindle	No. 16 Jarno	Capacity of Travelling Steady	3 $\frac{1}{2}$ " dia.
Taper of Centres	No. 3 Morse	Dia. of Tailstock Barrel	1 $\frac{3}{4}$ "
Spindle Nose	Cam Lock D1—6"	Movement of Tailstock Barrel	6"
Spindle Speeds, R.P.M.	33, 49, 73, 96, 139, 193, 211, 288, 435, 565, 832, 1,250	Set Over of Tailstock	$\frac{7}{8}$ " each way
		Driving Motor	5 H.P., 1,430 R.P.M.

STANDARD EQUIPMENT

Coolant Pump and Fittings.
Faceplate.
Driving Plate.
Centres.

Centre Sleeve.
Travelling Steady.
Stationary Steady.
Thread Dial Indicator.

Oil Gun.
Working Spanners.
Handbook.

EXTRA EQUIPMENT

Taper Turning Attachment.
Hydraulic Copy Turning
Attachment.
Metric Screw Cutting Gears.

Special Change Gears.
Reversing Switch.
Low Volt Machine Light.

Rear Chip Guard.
Chucks.
18" Faceplate.
Chuck Mounts.

Ask for special descriptive folder on this lathe.

**181**

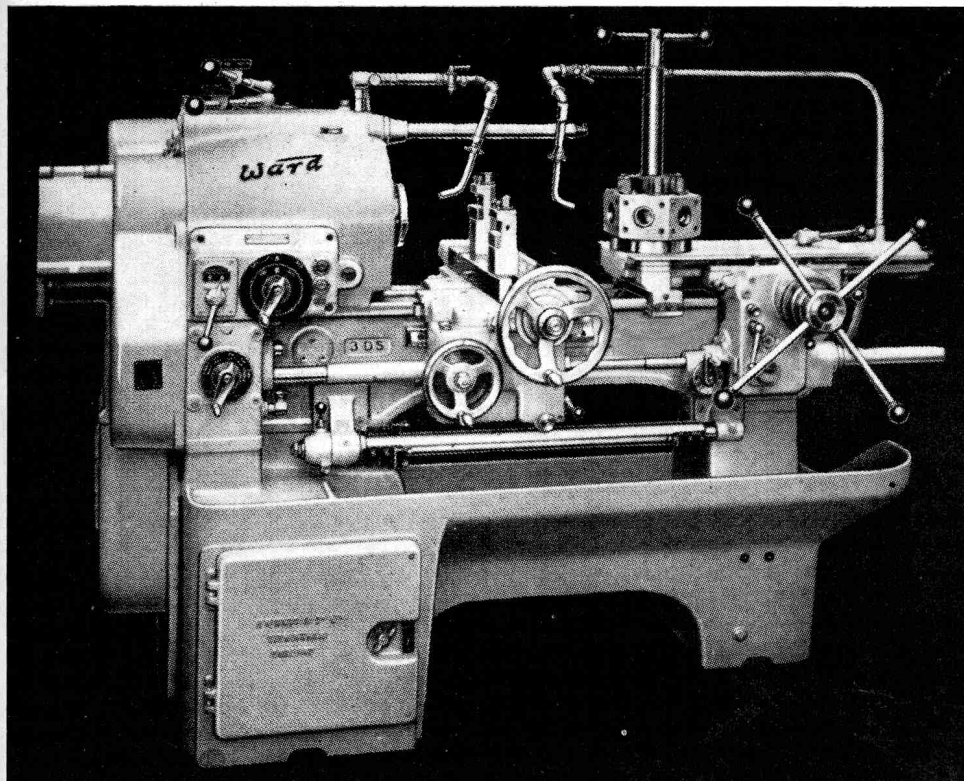
F664—

WARD LATHES

Ward Lathes are recognised throughout the world as the finest precision Machine Tools of their type.

Range includes:

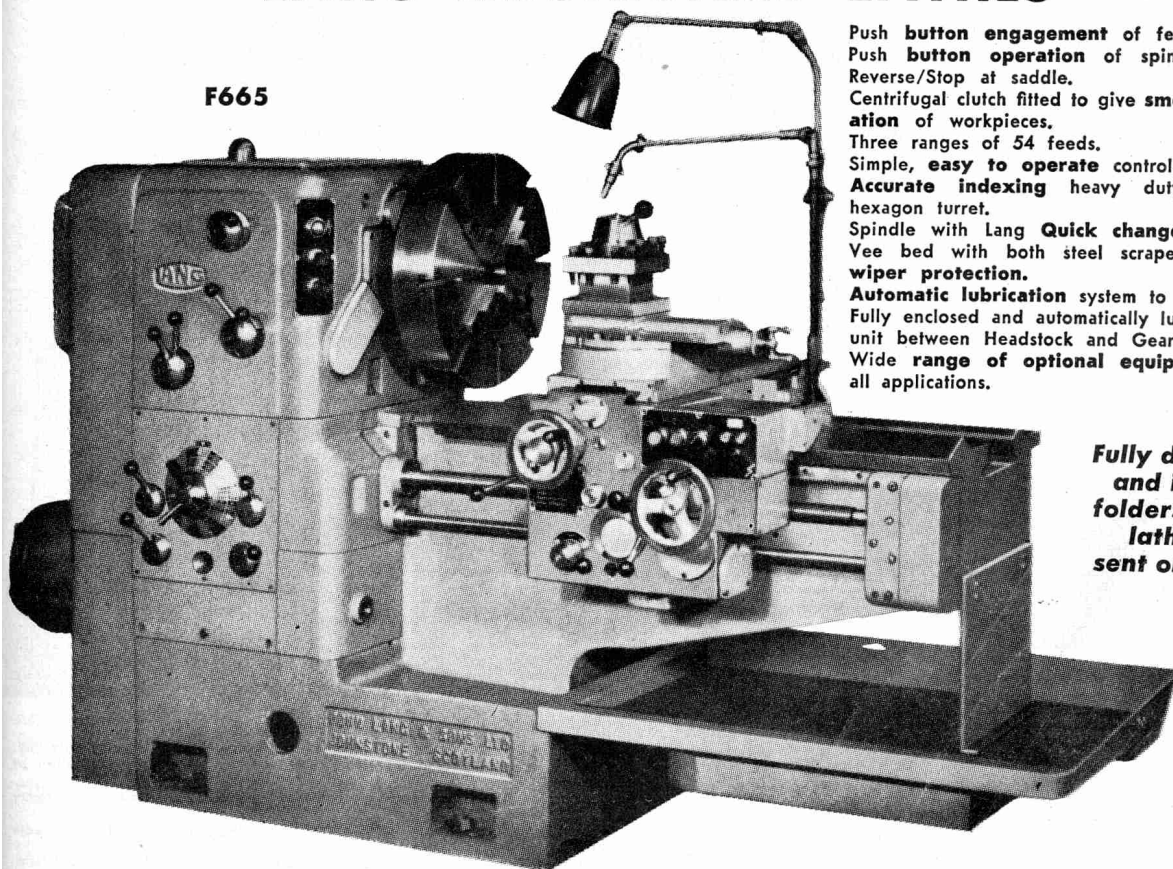
No. 7DS	Capstan
No. 7	Turret
2CA Capstan	No. 8 Turret
2DS Capstan	No. 10 Turret
3CA Capstan	No. 10/13 Turret
3DS Capstan	No. 16 Turret
2DS	Auto.
3DS	Auto.
7D	Prelector Turret



Full description on request.

LANG ELECTROFEED LATHES

F665



Push button engagement of feed at saddle.
Push button operation of spindle Forward/Reverse/Stop at saddle.
Centrifugal clutch fitted to give smooth acceleration of workpieces.
Three ranges of 54 feeds.
Simple, easy to operate controls.
Accurate indexing heavy duty square or hexagon turret.
Spindle with Lang **Quick change** flange.
Vee bed with both steel scraper and plastic wiper protection.
Automatic lubrication system to bedways.
Fully enclosed and automatically lubricated drive unit between Headstock and Gearbox.
Wide range of optional equipment to suit all applications.

Fully descriptive and illustrated folders on these lathes will be sent on request.

182 INDEX AUTOMATICS

INDEX "OR"

HIGH SPEED TURRET AUTOMATIC

High Spindle Speeds. Turret with Over-taking Threading Spindle. Wide range of attachments. In this machine, the high spindle speeds, overtake threading system and swinging side tools of the INDEX ON automatic are combined with the added advantages of a turret, enabling a very wide range of work to be produced at extremely fast rates.

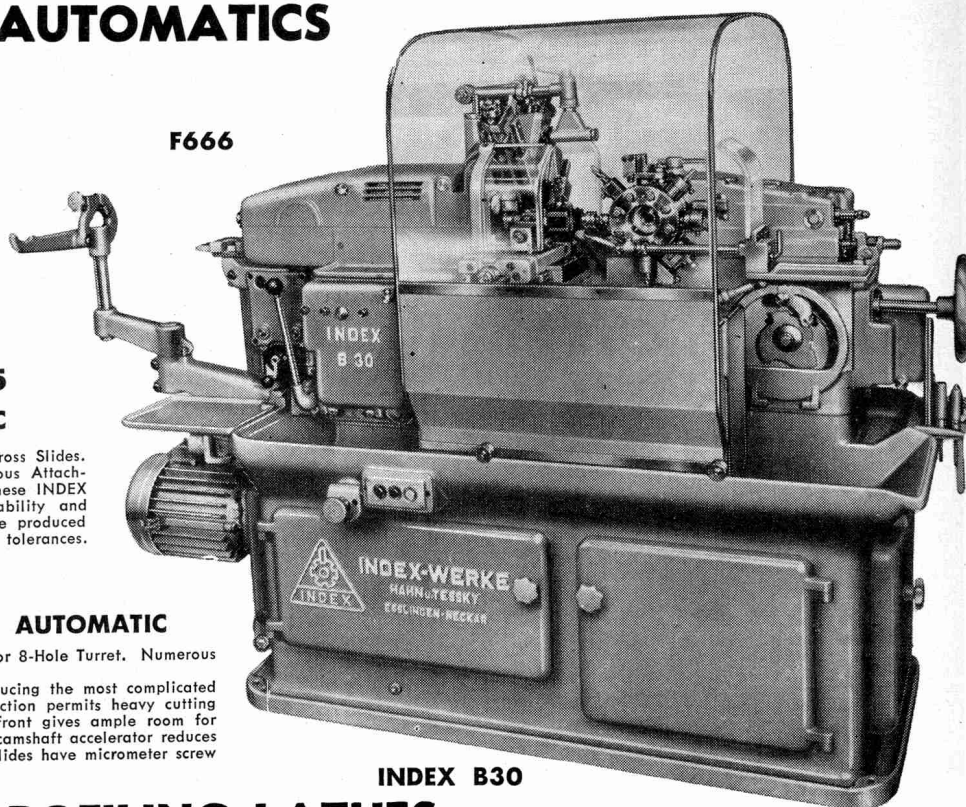
INDEX 12-18-25 TURRET AUTOMATIC

Wide range of Spindle Speeds. Three Cross Slides. Six-Hole Turret, Swing Stop and Numerous Attachments. The design and construction of these INDEX turret automatics ensure maximum reliability and enable a very wide range of work to be produced at efficient cutting speeds and to close tolerances.

INDEX B30-B42-B60 TURRET AUTOMATIC

High Spindle Speeds. 4 Cross Slides. 6 or 8-Hole Turret. Numerous attachments.

These new machines are capable of producing the most complicated work, and their especially robust construction permits heavy cutting even on high tensile steels. The open front gives ample room for chips and access to tools, and a built-in camshaft accelerator reduces idle time to a minimum. All four cross slides have micrometer screw adjustment.



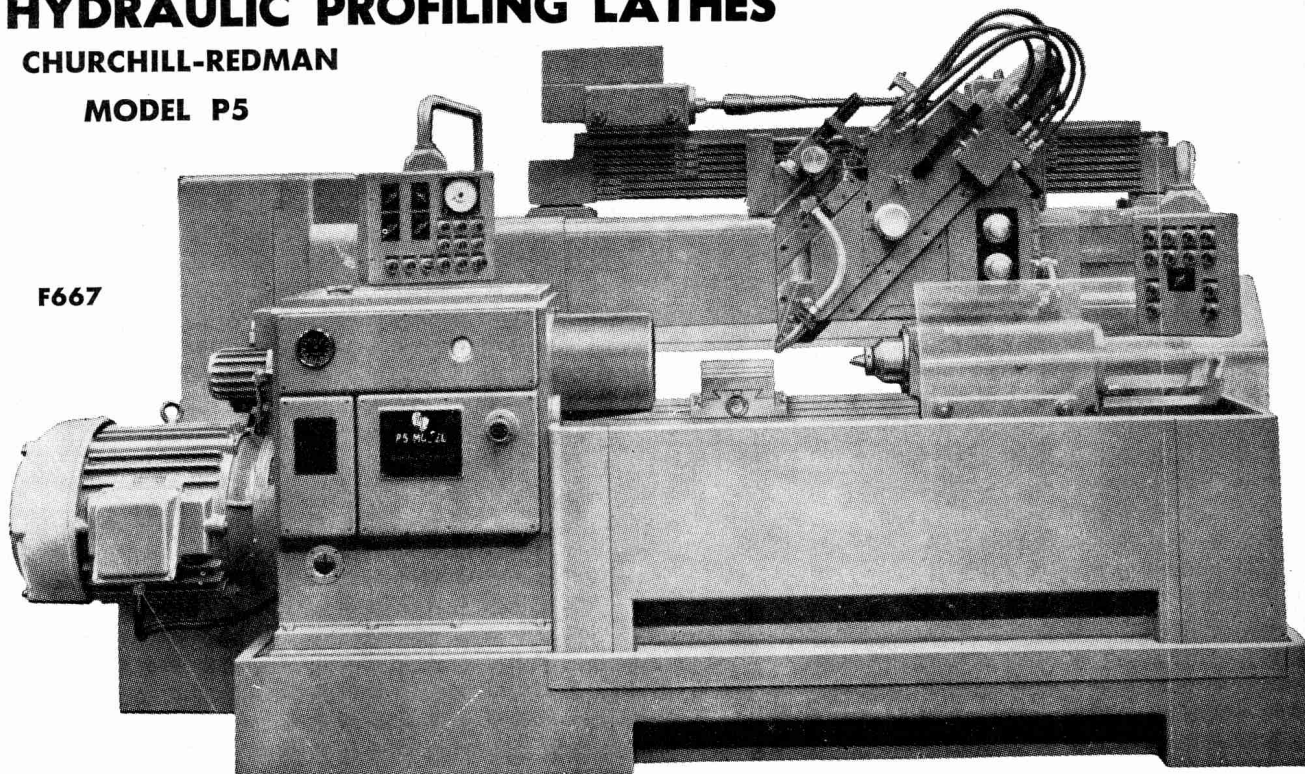
INDEX B30

HYDRAULIC PROFILING LATHES

CHURCHILL-REDMAN

MODEL P5

F667



DESIGN FEATURES

Hydraulically operated headstock clutches and brake, which are self adjusting. Machine hydraulically operated and all movements electrically controlled by push button. Sequencing of slide movements is obtained merely by selection of rotary switches. All machine movements can be operated separately by push button for ease of setting. The profiling carriage has infinitely variable hydraulic feed up to 30"/min. and automatic feed change.

	Model 15" x 20"	Model 15" x 40"
Swing over bed	15"	15"
Swing over saddle	9"	9"
Maximum turning diameter	9"	9"
Maximum distance between centres ..	20"	40"
Travel of auxiliary slide	5½"	5½"

F668—

BUTLER PRECISION SLOTTERS

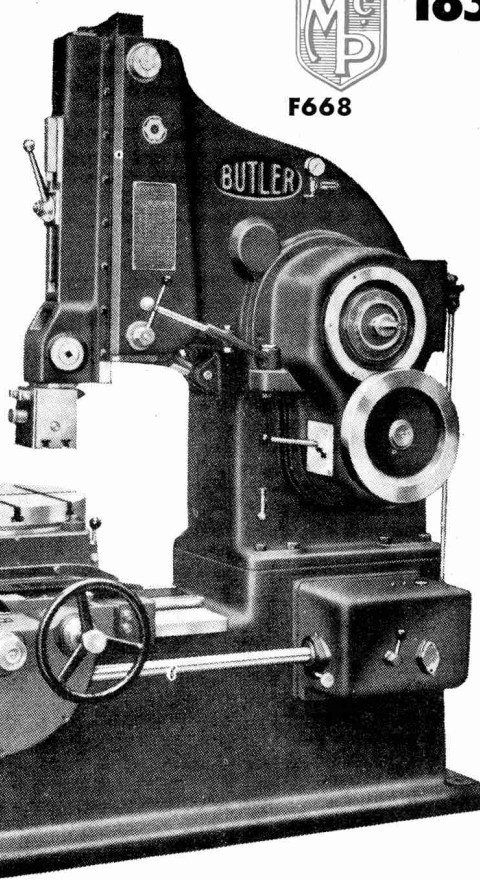
PRECISION SLOTTERS are intended for use where accuracy as opposed to cutting power is of paramount importance. They are, therefore, guaranteed to a maximum error of .0005" for the table traverses and for the alignment of the ram, while the surface of the table is perfectly flat and the tee slots machined at right angles, or parallel with one another, within the same limits.

Stroke: Maximum	12"	Traverse of Table: Across	25"
Number of Speeds	4	Traverse of Table: In	25"
Cycles per Minute	19, 30, 40	Table Diameter	24"
Ram Face to Frame: Horizontally, ..	24½"	Table Top to Frame: Max.	15¼"
Ram to Table Top: Mid. Stroke, ..		Max. Tilt of Table: Each Way .. .	—
Mid. Adj.	10"	Max. Tilt of Ram: Outwards	5°
Ram Adjustment	16"	No. of Divisions on Indexing Table	12
Max. under Ram	24"		



183

F668



F669—

BUTLER SUPER SHAPERS

Not illustrated

	Ins.	Ins.
Maximum Length of Stroke	18	26
Table —		
Top (length x width)	18 x 17¼	26 x 22½
Side (length x depth)	15 x 17	22½ x 22
Horizontal travel on slides	20	30
Vertical travel	12	14
Admits on top	14½	15½
Toolbox, vertical adjustment	6	9
Number of speeds	8	8
Speeds obtainable —		
Cycles per minute	15 - 150	9 - 100
Number of feeds	10	10
Range of Feeds010 to .105	.012 to .125

Ask for full specifications and illustrations
of Butler Super Shapers.

F670—

PARKSON

2NP PLAIN and 2NU UNIVERSAL MILLERS

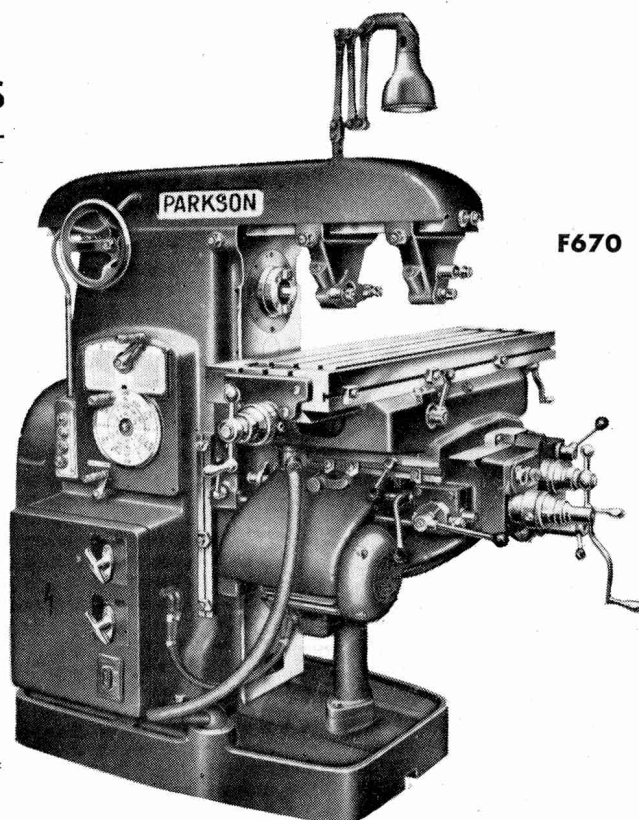
2NP PLAIN MILLER		2NU UNIVERSAL MILLER	
TABLE			
Working surface	51 x 12¾"		51" x 11½"
CAPACITY			
Longitudinal	30"		28"
Cross	10"		10"
Vertical	18"		18"
Centreline spindle to top of table			
Maximum	18"		18"
Minimum	0"		0"
Maximum distance face of column			
to arbor support	27"		27"
SPINDLE			
Spindle nose	5½" dia.		5½" dia.
Internal taper	3½" per ft. No. 50 size.		2¾" at large end.
Spindle speeds			12 rates. 29 to 775 r.p.m.
FEEDS			
Number of feeds	12		12
Range: Ins. per minute			
Longitudinal	½" to 10½"		½" to 10½"
Cross	½" to 10½"		½" to 10½"
Vertical	¼" to 5½"		¼" to 5½"
RAPID TRAVERSE			
Longitudinal	100"		100"
Cross	100"		100"
Vertical	50"		50"
DRIVE			
Spindle motor	5 H.P. at 1,430 r.p.m.		5 H.P. at 1,430 r.p.m.

DIVIDING HEAD

Will swing and admit between centres, 12" dia. x 30". Spindle bored, No. 10 B. & S. taper. Hole through spindle, 1½" dia.

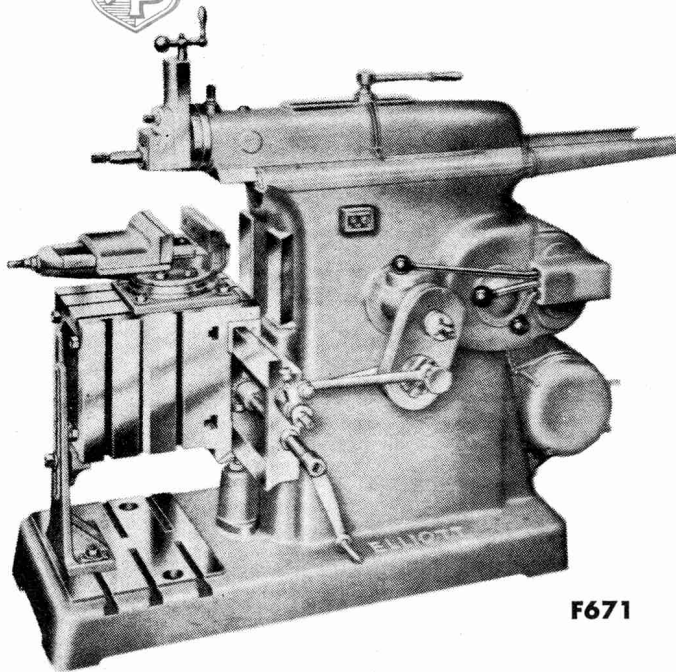
No. 26 SWIVEL BASE VICE

Width of jaws, 6". Depth of jaws, 1½". Opening, 3¾".



F670

184 ELLIOT 18 in. HIGH SPEED SHAPING MACHINES



F671

VICE

Jaws open 10 $\frac{3}{4}$ "

GENERAL

Floor space 71 $\frac{1}{4}$ " x 36 $\frac{1}{2}$ "
Horsepower 3

These improved machines have been designed to incorporate many refinements combined with a simplicity of operation. They are built for heavy, continuous duty.

Production has been planned with a view to economy in order to offer them at an attractive price. They combine first-class workmanship with the best quality materials and are capable of handling all classes of Shaper work with accuracy and rapidity.

The Table is provided with tee slots on the top, vertical vee and tee slots on the operating side and bolt holes on the reverse side. The Table Base has tee slots in alignment with those on the Table, and is fitted with a **full-length taper gib** to the cross slide guide.

RAM

Maximum stroke 18"
Number of speeds 6
Strokes per minute 11 - 101
Largest shaft admitted under ram 2 $\frac{3}{4}$ "

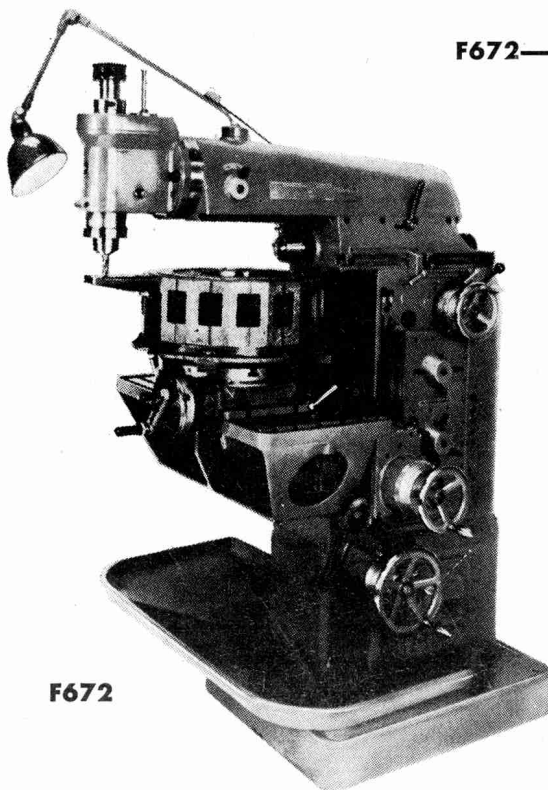
TABLE

Top surface 16 $\frac{3}{8}$ " x 12"
Longitudinal traverse 20 $\frac{3}{4}$ "
Cross feed range, per cut0104" - .0417"
Size of tool admitted 1 $\frac{1}{4}$ " x $\frac{5}{8}$ "

TOOL HEAD

Down feed 5"
Maximum tool section $\frac{11}{16}$ " x 1 $\frac{1}{4}$ "

F672—THIEL DUPLEX 158 TOOL AND PUNCH MILLER



F672

Fixed dowel positions for all attachments and tables, etc., help the setting and ensure consistent accuracy.

Horizontal Spindle

No. of spindle speeds 12
R.P.M. of spindle from 60-1,200 r.p.m.
Collet capacity 1"
3-jaw chuck capacity 4 $\frac{1}{2}$ "
Headstock, Horizontal, hand and power traverse 8"
Overarm, Horizontal hand adjustment 16 $\frac{1}{2}$ "
Overarm, Distance centre of spindle to underside 2 $\frac{3}{4}$ "

Universal Swivel and Tilting Table

(Standard Equipment)

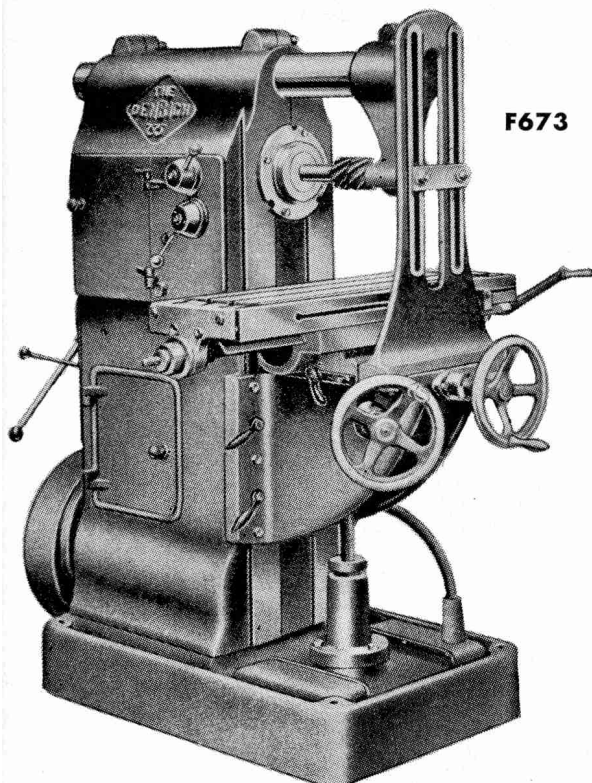
Working surface 10 $\frac{1}{2}$ " x 28 $\frac{1}{2}$ "
Maximum distance centre of spindle to table surface 16"
Table swivels each way and tilts front and rear 30°
Hand and power longitudinal traverse 12 $\frac{1}{2}$ "
Hand and power vertical traverse 16"

DENBIGH MILLING MACHINE



185

D4



F673

Totally enclosed gears running in oil bath.

Large diameter spindle and main taper roller bearings.

Improved steady bracket with phosphor bronze bush permitting movement closer to cutters.

Dial indicators fitted to all traverses.

	Inches
Working Surface of Table, D4	46 x 10
Automatic Feed, longitudinal, D4 (Swivel Saddle)	25 1/4 and 37 1/4
Cross Feed	7 1/2
Vertical Adjustment, D4	16
Largest cutter that will clear overhanging arm	12 1/2
Number of Spindle Speeds through 3-speed Cone and Double Back-gear	9
Speeds: Without Back-gear	720 360 180
With Back-gear in 2nd position	76 38 19
With Back-gear in 1st position	240 120 60
Number of Feed Changes	4

The Denbigh Type "D" 3 Milling Machine may be supplied with air-hydraulic feed for automatic production.

This high production machine is fitted with a robust air-hydraulic feed providing automatic production cycles. The large diameter pneumatic cylinders give very rapid approach and return feeds. The cutting feed is hydraulically controlled, infinitely variable, and very readily pre-set and adjusted to suit the work in hand.

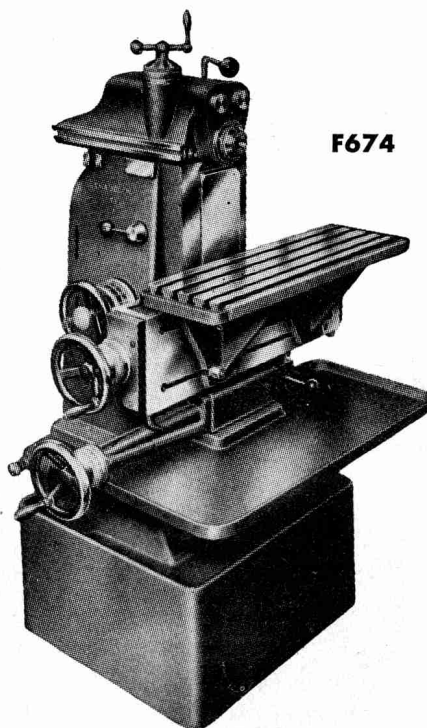
F674—SCHAUBLIN SV 13 MILLING MACHINE

Suitable for the manufacture of single parts and batches of parts for the production of tools, templates, punches, dies, gauges and forms, and for use in laboratories and prototype departments.

Plain drive through variable-speed unit and gearbox. All gears are made of hardened and ground chrome-nickel steel, allowing transmission of maximum power at low speeds. Infinite range of spindle speeds from 56 to 2,100 r.p.m., permitting the milling of all metals, light alloys, and plastic materials, by means of hard-metal tools.

Friction type safety device protecting feedbox against overload and incorrect operation. Single lever for engaging and reversing longitudinal and vertical automatic feeds.

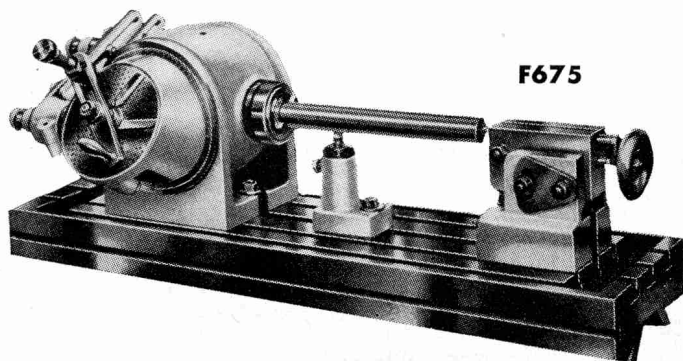
F674



F675—VICTORIA PRECISION HEAVY DUTY DIVIDING HEAD

This Dividing Head is suitable for simple or differential indexing as well as for helical milling (helical gears, spiral fluted cutters, etc.) in a horizontal axis. The Dividing Plate assembly is mounted directly on to an inclined worm shaft for easy reading. All parts which could with advantage be hardened and ground are made from alloy steel suitably heat treated, whilst the main castings are of meehanite iron. Sine bar pins are fitted to the body for setting to extreme accuracy of inclination when using the head out of the horizontal position. Degrees are calibrated on the body for rapid and approximate setting. The tailstock is of the inclinable type and the equipment includes two hole plates, a set of change gears, work support jack and shaft extensions for differential indexing.

F675



Height of centres	6"
Worm gear ratio	40:1
Total length with centres touching	25 1/2"
Height in vertical position	13 1/2"
Recommended for table lengths	40" upwards
Spindle nose	I.S.T. No. 40
Spindle nose adapter	No. 2 Morse
Tailstock centre	No. 1 Morse

Set of eleven change wheels extra equipment.

186



F675—'BEAVER'

Swivelling Turret Milling Machine Model VBRP Mark 11

RP Mark II Milling Head

This all angle milling head is a complete self-contained unit. Ten reversible spindle speeds are provided, five high, five low. Low speed is selected by a quick one finger action single lever.

RANGE

Table length 36", 44", 48", 56"
Longitudinal Feed 16", 24", 28", 36"
Rapid Traverse reduces above by 2"

All available with power feed

Width of table 10"
Longitudinal Power Feed table only,
L.H. or R.H. $\frac{1}{2}$ "-2 $\frac{1}{2}$ " or 1"-9" per min.
Cross table traverse 12"
Vertical table traverse 19"

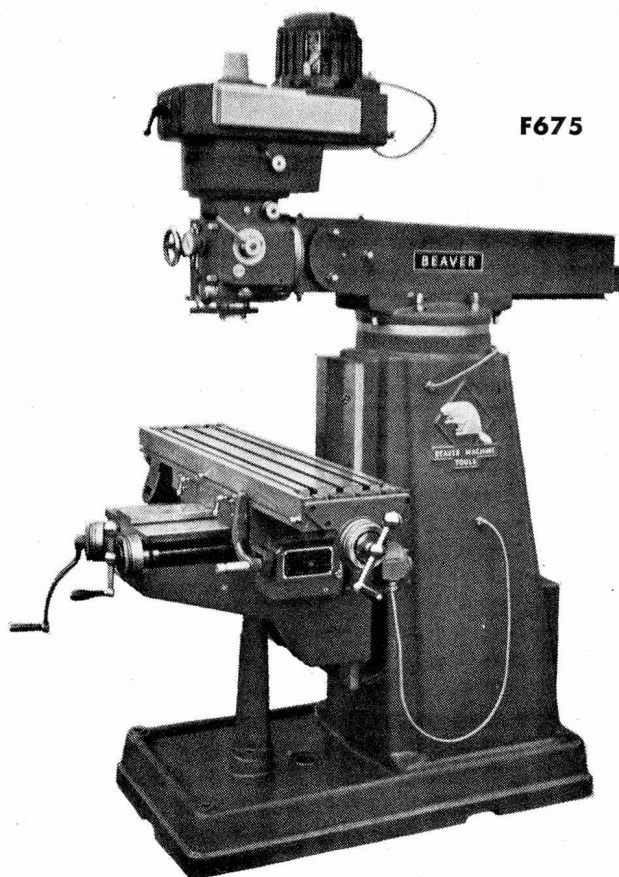
SPINDLE

Spindle nose No. 30 I.S.T. or No. 40 extra
Spindle speeds No. 8 or 10
Spindle speeds range 80-3,000 R.P.M.
Spindle quill traverse 5"
Spindle centre line turns through 180° (in longitudinal plane and 90° in traverse plane).

SPINDLE MOTOR

1½-2 h.p. recommended at 1,500 R.P.M. or 3 h.p. as extra.

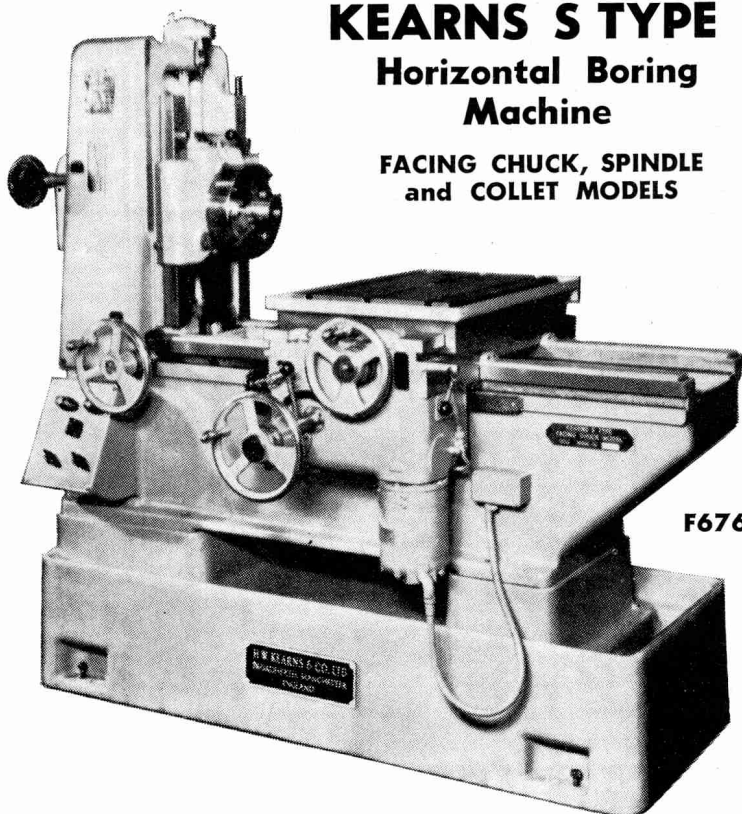
Overarm adjustment for column face, maximum 22"
Overarm adjustment for column face, minimum 5½"
Spindle nose to top of table, maximum 17"
Spindle nose to top of table, minimum 0"
Face of column to centre line of 'T' slot in table, maximum . . 17"
Face of column to centre line of 'T' slot in table, minimum . . 5"



F675

KEARNS S TYPE Horizontal Boring Machine

FACING CHUCK, SPINDLE and COLLET MODELS



F676

S TYPE FACING CHUCK MODEL

Facing Chuck

Maximum dia. machine will face 8"
Number of speeds 6
Range of speeds, r.p.m. 40-500
Surfacing feed number 1
Rate per revolution of chuck006 ins.

S TYPE SPINDLE MODEL

Main Spindle

Spindle bore to B.S. 1660 No. 40 taper
Number of speeds 6
Range of speeds 80 to 1,000

S TYPE COLLET MODEL

Main Spindle

Maximum bore at collet in spindle 1.5"
Number of speeds 6
Range of speeds, r.p.m. 80 to 1,000

Compound Table

Size of main table 16" x 22"
Feed motor. Horse power $\frac{1}{4}$
Size of tee slots for bolts $\frac{5}{8}$ diam.

Traverses

Longitudinal. Without boring stay 24"
Transverse 12"
Vertical (collet and spindle model) 12"
Vertical (chuck model) 11½"

Maximum Distances

Spindle centre to main table 12"
Spindle nose to boring stay when fitted 2' 9"

Feeds

To longitudinal and transverse motions of main table.
Number 3
Rates per minute6, 1, 1.7 ins.*

Main Driving Motor

Horse power 1½

F678—THIEL SEGURA 117 PRECISION BANDSAWING 187 AND BANDFILING MACHINE



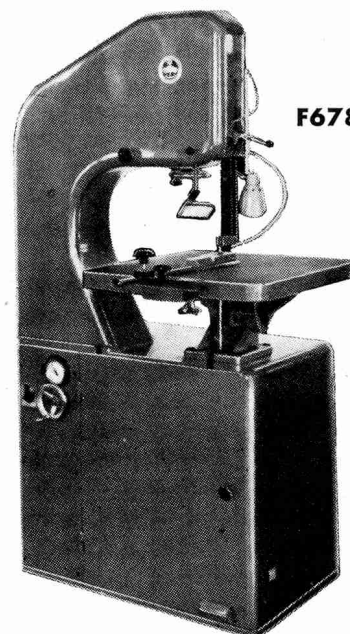
Precision Bandsawing and Bandfiling Machine for toolmaking and production is a valuable addition to the THIEL programme. THIEL machines are a "must" for economical toolmaking!

Outstanding advantages of the new THIEL SEGURA 117 are:

Three saw guide rollers, cutting speeds 50-2,950 ft./min., large robust work table, large throat, large work clearance, simple quick operation, special THIEL precision saw guides.

Diameter of three saw guide rollers .. 12"	To the front and back 15°
Cutting speeds infinitely variable	Max./Min. length of saw band .. 133"/128"
50/395 ft./min.	Width of saw band 1/8" - 3/8"
When set to high range .. 395/2,950 ft./min.	Length of band file, approx. 129"
Throat 19 5/8"	H.P. of motor 1.5
Maximum height of work 9 3/4"	R.P.M. of Motor 940
Table size 23 1/2" x 23 1/2"	Height of machine 71"
Table swivel —	Machine base 36" x 21"
To the right and left 30°	

THIEL SEGURA 117 permits rapid and accurate working following marked outlines — reducing or eliminating further operation and saving many highly paid hours of toolmaker's time!



F678

F679—VAUNSAW HACKSAW MACHINES

A NEW DEVELOPMENT IN HACKSAW DESIGN

The VAUNSAW British-built fully automatic hacksaw embodies design features to bring sawing into line with the considerable advances made in other metal cutting machine tools.

MAIN DRIVE is from a quick change V belt on three-step pulleys through an oil bath gear box and finally transmitted to the bow by a shaper action ball-bearing link.

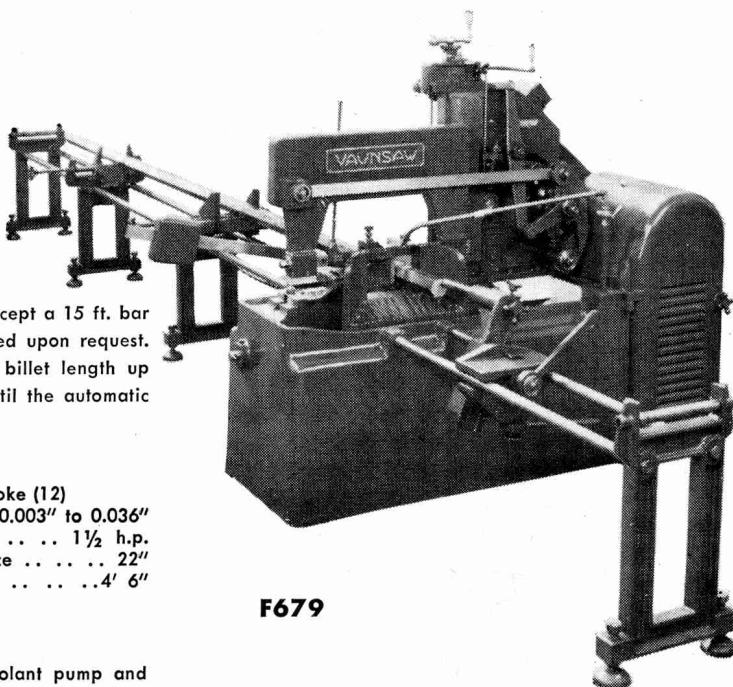
AUTO BAR FEED is of simple, sturdy construction and will accept a 15 ft. bar length. Accommodation for extra length bars can be provided upon request. The feed mechanism moves the bar to any pre-determined billet length up to an adjustable stop. Axial pressure is kept on the bar until the automatic vice grips.

SPECIFICATIONS

Sawing capacity, 6" dia. or 6" square	Cutting feeds per stroke (12)
Bar feed length (standard) .. . 15'	0.003" to 0.036"
Blade length 14"	Motor 1 1/2 h.p.
Stroke length 6"	Height — floor to vice 22"
Strokes per. min (standard)	Height — overall 4' 6"
75-115-145	

STANDARD EQUIPMENT

Automatic bar feed, automatic vice, hand operated vice, coolant pump and fittings, spanner key, one high power saw blade.



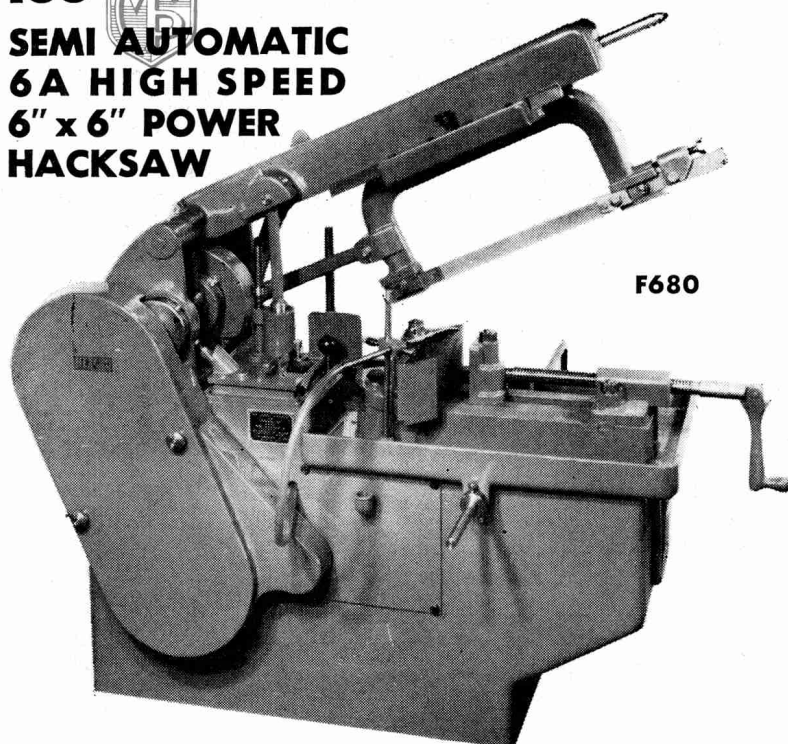
F679

The VAUNSAW is completely automatic from the first loading of a full length bar until this is reduced to billets. The movement of one control immediately converts the machine from automatic cycle to "one-off" production.

188



SEMI AUTOMATIC 6A HIGH SPEED 6" x 6" POWER HACKSAW



F680

A modern, powerful machine, designed for faster cutting, greater accuracy, longer blade life and ease of operation.

HYDRAULIC RAISING AND LOWERING is fitted to the saw guide. A control lever enables the operator to raise, lower or stop the saw in any desired position while the machine is running. At the end of the cut the saw is automatically returned to the raised position, after which a limit switch is actuated to stop the machine.

DRIVE is by twin Vee belts and machine generated gearing, both fully enclosed. The motor is mounted on a hinged platform with a simple and effective belt tensioning device.

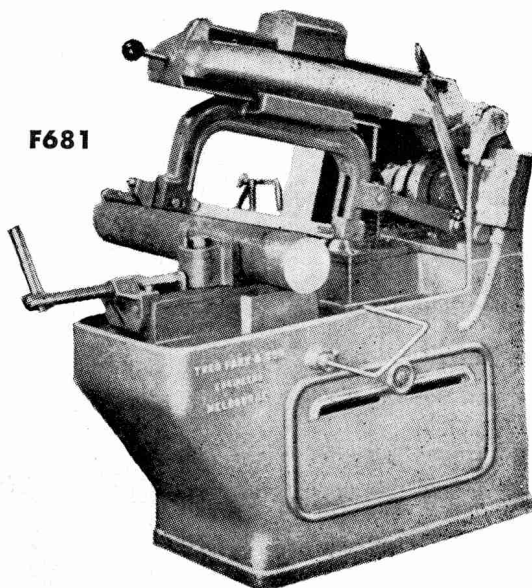
FEED AND CUTTING PRESSURE is hydraulically controlled and the pressure on the saw is infinitely adjustable to give the wide range of feed pressures needed to efficiently handle light and heavy sections in soft and hard materials.

SAMPLE CUTTING TIMES

Machine Speed—120 strokes/min.
Blade—6 Teeth/inch.

Dia. of Bar	Actual Cutting Time	
	3% Nickel Steel	Free Cutting Steel
6"	27½ mins.	
5"	18 mins.	9 mins.
4"	10½ mins.	5 mins.
3"	4½ mins.	2½ mins.
2"	2 mins.	1½ mins.
1"	½ min.	¼ min.

PARKANSON 6 INCH HIGH SPEED HEAVY DUTY HACKSAW



F681

- Motor unit completely housed in machine base.
- Self-contained coolant system.
- Complete hydraulic unit incorporated.
- Adjustable cutting pressure.
- Fully enclosed Main Drive Pulley.

SPECIFICATIONS

Capacity .. . Up to 6" x 6"
Blades .. . 14" x 1"
(12" x 1" can be used)

Hydraulic lift and feed pressure control.

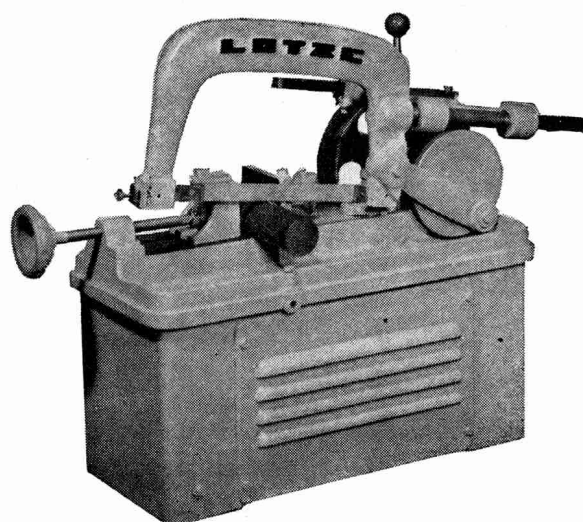
Vice jaws swivel for angular settings up to 45°.

Gib fitted in saw-box for adjustment of the guides.

Motor .. . ¾ h.p., 1,440 r.p.m.

Speed .. . 120 strokes per minute

F682—"LOTZE" HACKSAW MACHINE



Capacity .. . 5" x 5"
Saw blade .. . 12" long x 1" wide
Strokes per minute .. . 120
Motor required .. . ¼ h.p.
Hydraulic lift to bow.
Swivel vice to 45°.
Can be supplied with clutch-operated single pulley or built-in motor drive.