

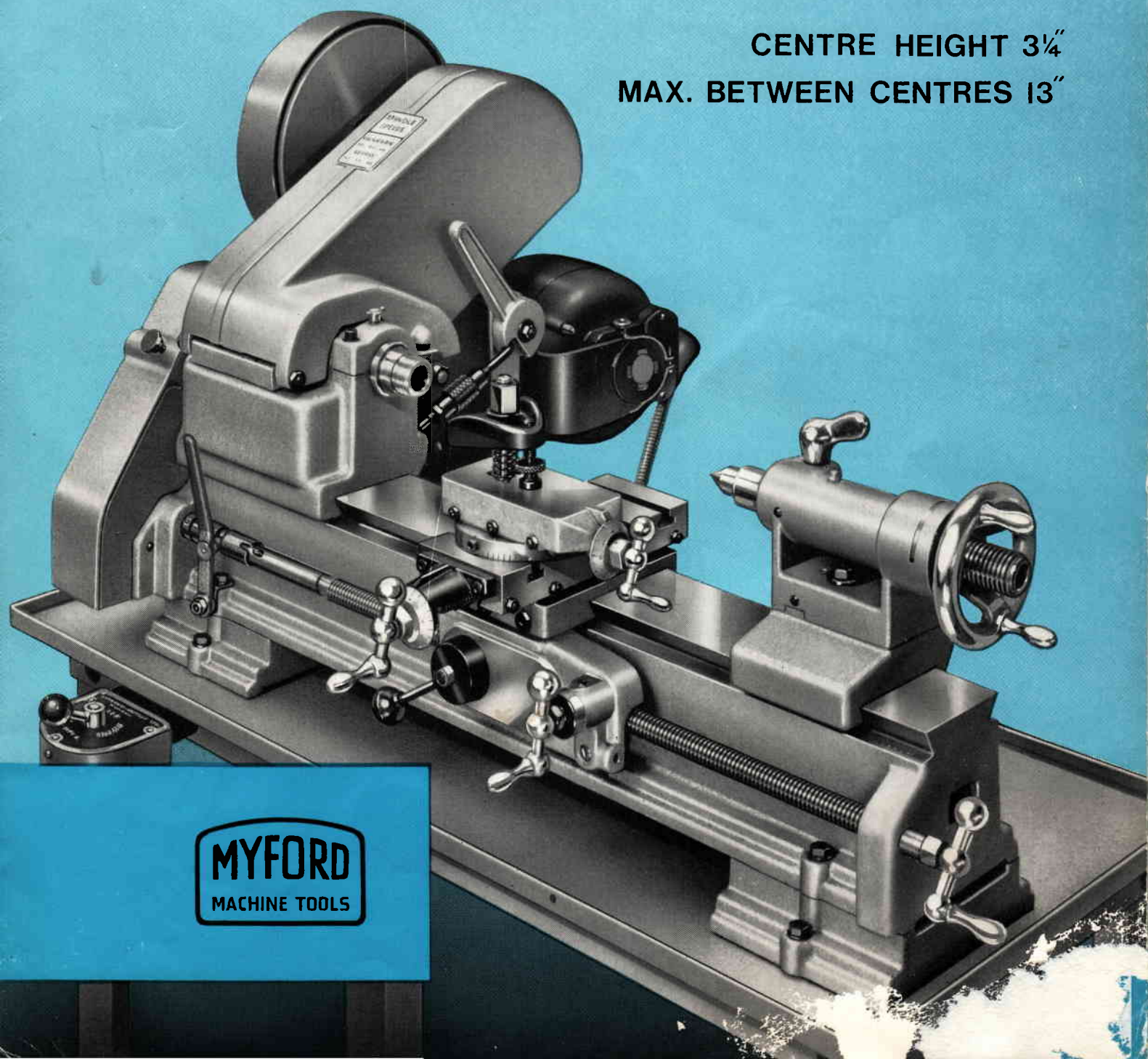
**NEW**

# Myford ML10

## SCREWCUTTING CENTRE LATHE

CENTRE HEIGHT  $3\frac{1}{4}$ "

MAX. BETWEEN CENTRES 13"



**MYFORD**  
MACHINE TOOLS

# THE NEW MYFORD ML10 LATHE . . . .

- Bed, box section casting in MEEHANITE iron, with "solid" top for extra rigidity.
- Bed precision ground on top face and angular shears.
- Headstock spindle hardened and ground.
- Primary drive belt guard and changewheel guard both provided with backplates for fullest enclosure.
- Changewheel guard with single point fixing for quick removal.
- Pivoted headstock drive belt guard also covers backgearing.
- Quick action belt tension release for headstock drive facilitates speed changing.
- Rapid clamping of tailstock to bed by lever action.
- Tailstock with separate base for set-over for taper turning.
- Leadscrew bearing brackets fitted bronze bushes.
- Leadscrew fitted ball handle for fine, manual, saddle feeds.
- Leadscrew clutch available as additional equipment.
- Clamping screws fitted to saddle and cross slide.
- Cross slide provided with 4 tee slots for use as boring table.
- Top slide arranged to swivel 360°.
- Thread dial indicator fitted as standard.

## SPECIFICATION

Centre height	3 $\frac{5}{8}$ " (84 mm)
Maximum admitted between centres	13" (330 mm)
Width across bed shears (to sharp corners)	3" (76 mm)
Headstock spindle nose bored	No. 2 M.T.
Headstock spindle bored through	0.6" (15.24 mm)
Spindle nose register	1 $\frac{1}{4}$ " dia. (31.75 mm)
Spindle nose thread	1 $\frac{1}{8}$ " x 12 T.P.I.
Swing over saddle	5 $\frac{7}{8}$ " (149 mm)
Swing over cross slide	3 $\frac{7}{8}$ " (98 mm)
Cross slide travel	4 $\frac{1}{4}$ " (108 mm)
Cross slide micrometer dial, divisions	0.001"
Ditto, metric divisions, infeed	0.02 mm
Top slide base swivels	360°
Top slide base graduated 180° either side, divisions	1°
Top slide travel	2" (51 mm)
Top slide micrometer dial, divisions	0.001"
Ditto, metric divisions	0.02 mm
Height from top slide to centre	$\frac{1}{2}$ " (12.5 mm)
Tailstock barrel bored	No. 2 M.T.
Tailstock barrel travel	3" (76 mm)
Tailstock set-over, to the front	$\frac{3}{8}$ " (9.5 mm)
Tailstock set-over, to the rear	$\frac{3}{16}$ " (5 mm)
Leadscrew	$\frac{3}{8}$ " dia. 8 T.P.I. Acme form
Spindle speeds, 1425 R.P.M. motor, 50 cycles A.C.	840-48 R.P.M.
Spindle speeds, 1750 R.P.M. motor, 60 cycles A.C.	1000-58 R.P.M.
Screwcutting range	8-40 T.P.I.
Screwcutting range, metric (with extra gears)	0.20-3.50 mm
Feeds, per revolution of headstock spindle	0.01-0.0037"
Feeds, per revolution of headstock spindle	0.25-0.09 mm
Length overall	35 $\frac{1}{2}$ " (910 mm)
Width overall, incl. motor, cross slide fully extended	app. 26" (660 mm)
Bench lathe with standard equipment (less motor)	117 lbs. (53 kgs.)
Set of three Raising Blocks	10 $\frac{3}{4}$ lbs. (4.9 kgs.)
Chip Tray	11 lbs. (5 kgs.)
Stand	55 lbs. (25 kgs.)
Motor, switch and wiring, three phase	23 lbs. (10.5 kgs.)
Motor, switch and wiring, single phase	25 lbs. (11.5 kgs.)

## STANDARD EQUIPMENT

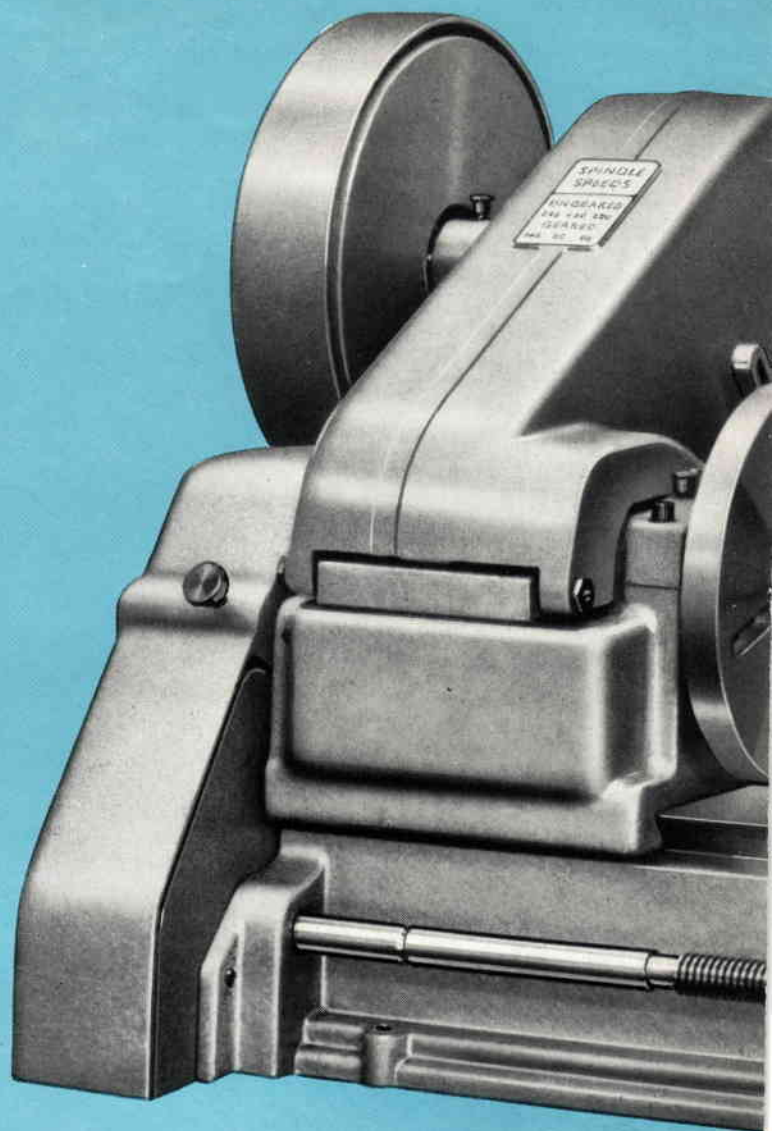
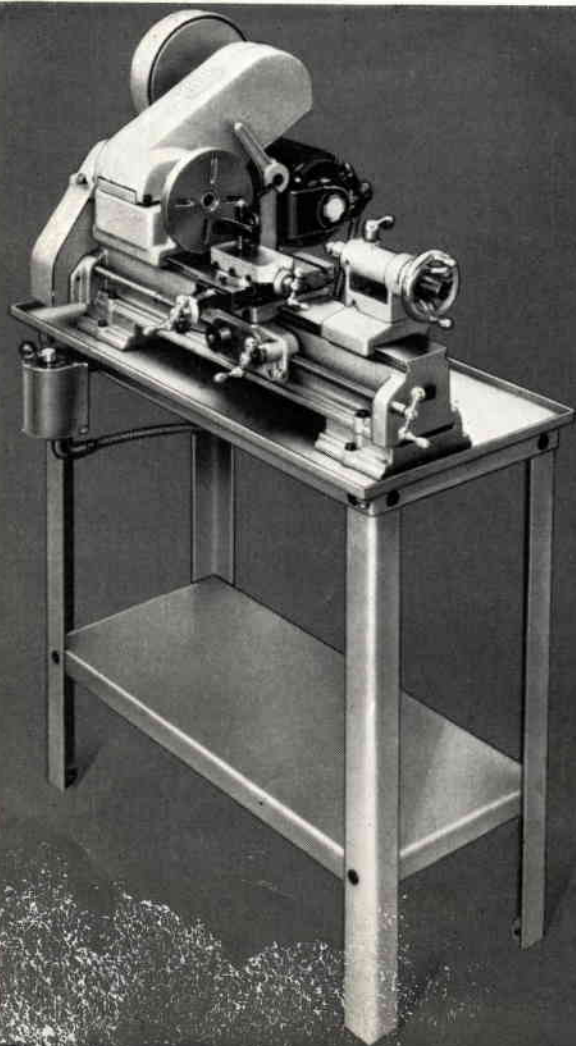
Primary belt, headstock belt and changewheel guards, two vee belts, motor pulley  $\frac{3}{8}$ " bore, faceplate with driver peg (for use also as catchplate), No. 2M.T. soft centre for headstock, No. 2M.T. hard centre for tailstock, 2 double ended spanners, 3 hexagon keys, oil gun and thread dial indicator.

. . . FULL SET OF 15 CHANGEWHEELS and Drive Unit.

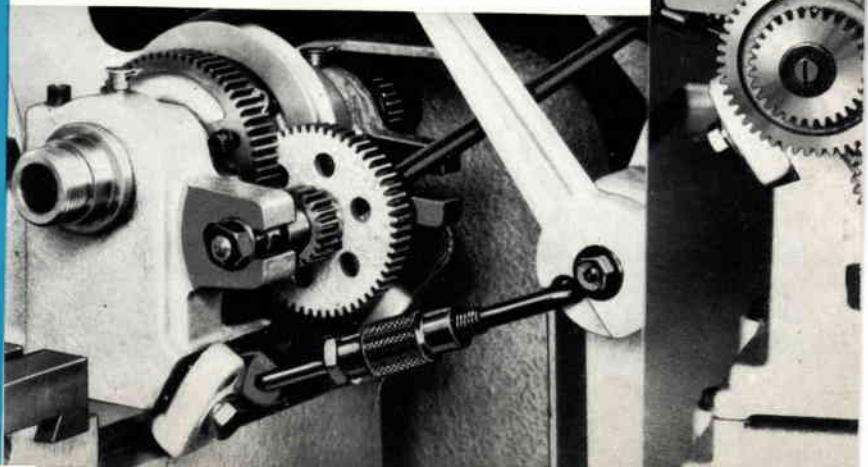
# THE NEW MYFORD ML10 LATHE . . . .

The ML10 lathe is equally suitable for bench or stand mounting. The standard equipment included with the machine is extremely comprehensive and includes guards and a range of changewheels for screw cutting and fine feeds. The range of additional equipment is extremely wide, thus ensuring versatility and includes steadies, four tool turret, plain and swivelling vertical slides, angles plates, vee blocks, chucks, collets, die holders, turning tools and so on. The Myford quick setting lathe tools in  $\frac{3}{8}$ " size (No. 108) can be used in conjunction with a special tool boat (No. 108ZB).

The illustration below shows the ML10 lathe on stand No. 20/121, with drip tray No. 20/117, raising blocks No. 20/118 and motor with drum type reversing switch (No. 60/027 single phase, No. 60/028 three phase).

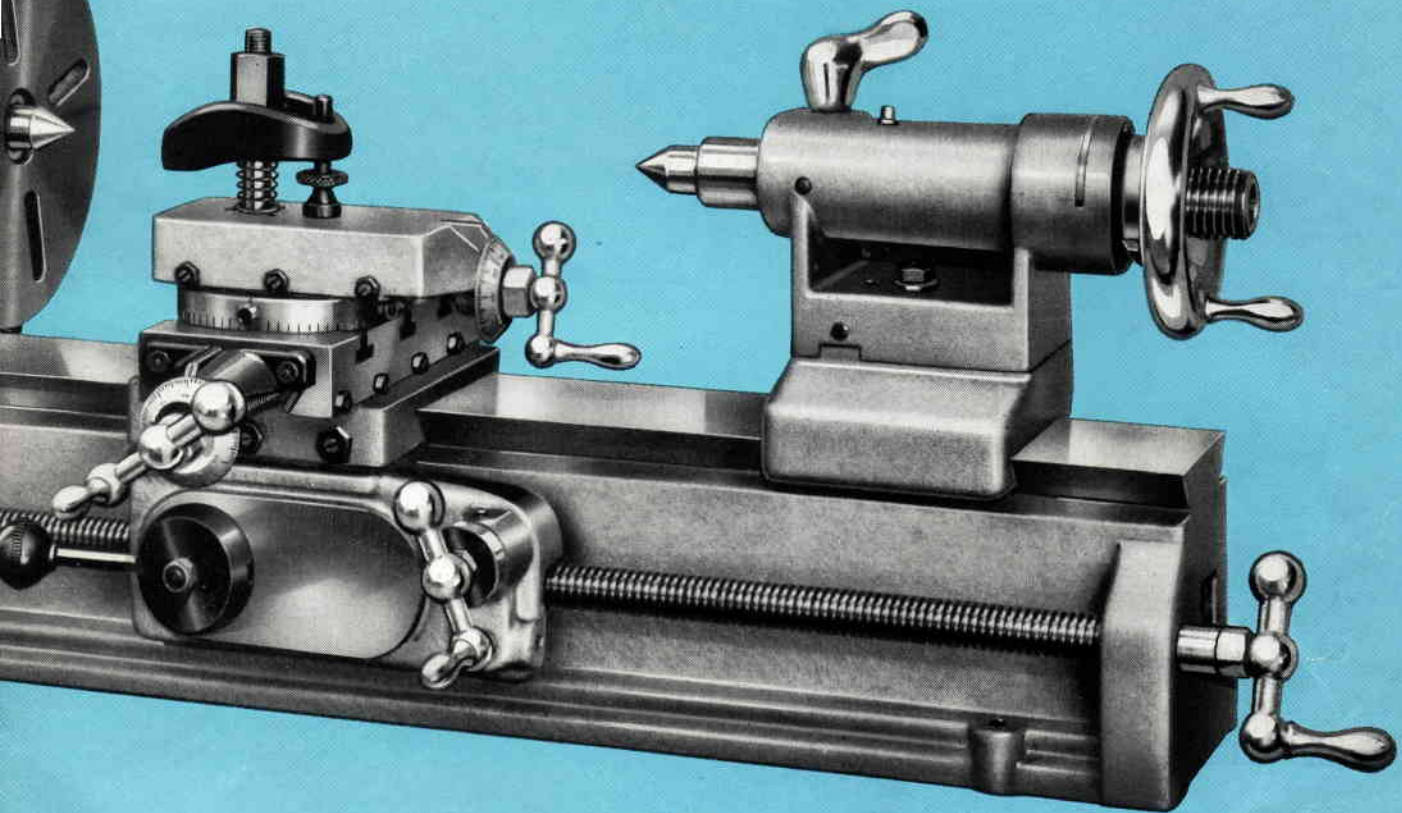


A quick acting lever releases the belt tension for changing the spindle speed, a turn buckle incorporated in the mechanism providing for rapid belt tension adjustment. The backgear cluster, mounted on a stud with single point clamping and provided with an adjustable stop screw, can be rapidly and accurately engaged.



# Myford ML10

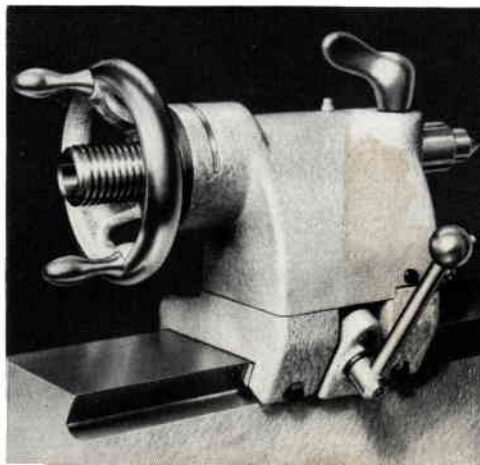
**3 $\frac{1}{4}$ " centre height  
13" between centres  
screwcutting lathe**



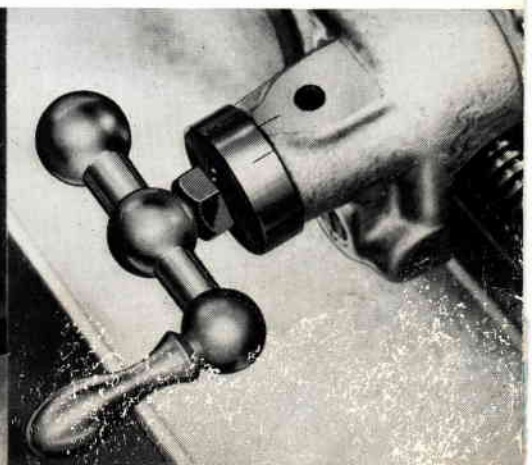
The drive to the leadscrew is by accurately cut changewheels protected by a guard having a single fixing point for quick removal. A fork cast on the headstock provides for an extra stud for an intermediate gear for left hand threads and, when required, for fine feeds towards the tailstock.

A chart inside the guard covers a range of inch and metric pitches, though extra change-wheels are required for the latter. All the gear trains shown give right hand threads or feeds towards the headstock.

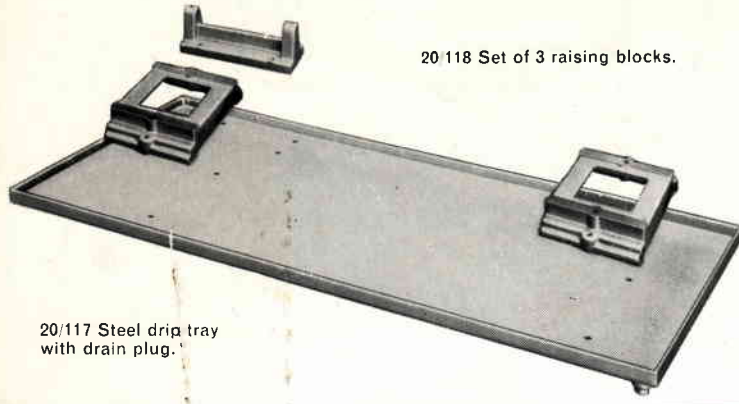
The tailstock is provided with a gib strip to ensure maintenance of the alignment when the quick acting clamping lever is released. Adjusting screws facilitate set-over for taper turning and a lever clamp is provided for barrel clamping.



The thread dial indicator is mounted on the hand traverse shaft and is included in the standard equipment with each machine. It is a valuable adjunct to the machine not only when screwcutting but also for fine self-act feeds, to show the correct moment for engagement of the clasp-nut.

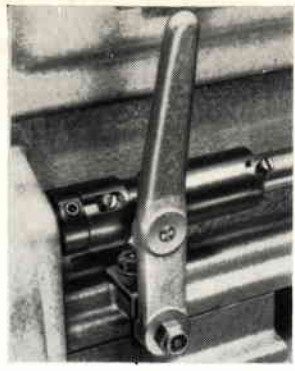


# ACCESSORIES



20/118 Set of 3 raising blocks.

20/117 Steel drip tray with drain plug.



20/123 Set of leadscrew clutch parts.

1 h.p., 1425 r.p.m. motor with drum type switch and wiring.  
60/027 Single phase.  
60/028 Three phase.



- A. 4" 3-jaw G.S. chuck with threaded body. Standard pattern, 40/003. Griptru pattern, 40/004.
- B. 4" 4-jaw independent chuck fitted backplate, 40/046.



- C. 67/1 Plain vertical slide, for cross-slide mounting. Table 5½"-2½", micrometer dial graduated .001" divisions.

- D. 68/2 Swivelling vertical slide for cross-slide mounting. Table 5" x 4", dial graduated .001" divisions.

- E. Machine vice No. 71, jaw width 1½", maximum opening 1½".



No. 170 plain and 171 vee drill pads made to fit on No. 155 hollow centre. Centres. No. 2 M.T. 75/1248 hard, 76/1249 soft, 153 square, 154 half, 155 hollow, 1861 wood prong, & 169 fluted.

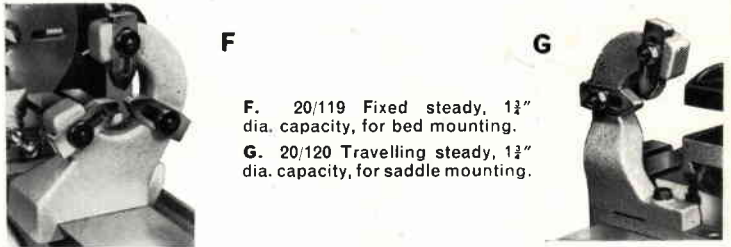


F.

- F. 20/119 Fixed steady, 1½" dia. capacity, for bed mounting.

G.

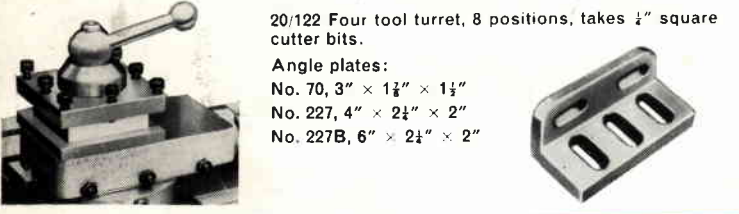
- G. 20/120 Travelling steady, 1½" dia. capacity, for saddle mounting.



20/122 Four tool turret, 8 positions, takes ¼" square cutter bits.

Angle plates:

- No. 70, 3" x 1½" x 1½"
- No. 227, 4" x 2½" x 2"
- No. 227B, 6" x 2½" x 2"



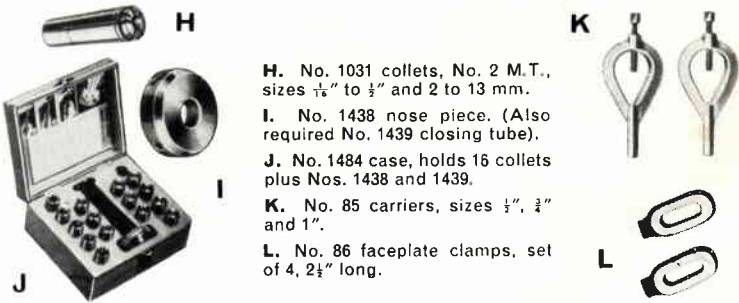
- H. No. 1031 collets, No. 2 M.T., sizes 1/16" to 1/2" and 2 to 13 mm.

- I. No. 1438 nose piece. (Also required No. 1439 closing tube).

- J. No. 1484 case, holds 16 collets plus Nos. 1438 and 1439.

- K. No. 85 carriers, sizes 1/2", 3/4" and 1".

- L. No. 86 faceplate clamps, set of 4, 2½" long.



- M. No. 1434 adaptor, No. 2 M.T., to enable headstock chucks, etc., to be mounted on tailstock.

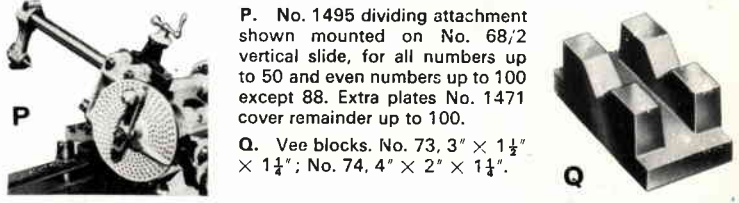
- N. No. 1133A arbor for 1/2" bore milling cutters for use between centres.

- O. Tailstock die holders with No. 2 M.T. shanks. No. 1435 for 13/16" dia. and No. 1436 for 1" dia. dies.



- P. No. 1495 dividing attachment shown mounted on No. 68/2 vertical slide, for all numbers up to 50 and even numbers up to 100 except 88. Extra plates No. 1471 cover remainder up to 100.

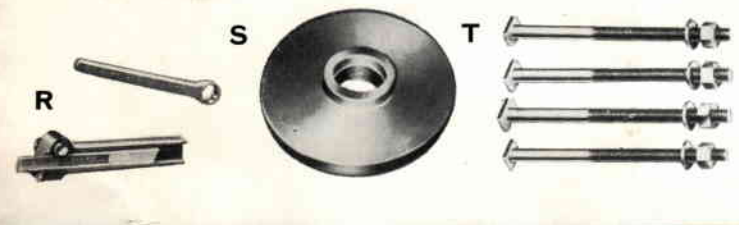
- Q. Vee blocks. No. 73, 3" x 1½" x 1½"; No. 74, 4" x 2" x 1½".



- R. No. 633S parting tool holder, with one blade 5/16" x 1/16", and key.

- S. Chuck backplates; for range available see price list.

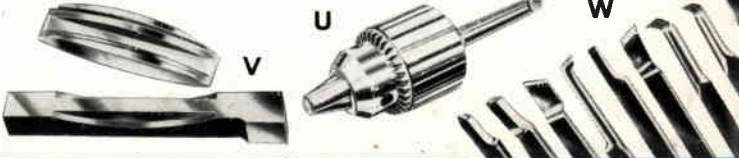
- T. Tee bolts and nuts, 1196, 6" and 1197, 3" long; also No. 2422 for securing No. 71 vice to cross-slide, etc.



- U. Drill chucks with No. 2 M.T. shank. 40/001 0-3/8" and 40/002 0-1/2".

- V. No. 108, quick setting lathe tools, H.S.S. butt welded 3/8" sq. using MA108ZB tool boat.

- W. H.S.S. sliderest tools: No. 105 set of 8, 5/16" sq.; No. 1478 set of 12, 5/16" sq. and No. 1115 set of 12, 3/8" sq.



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TELEGRAMS:  
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