

THE *Selecta* UNIMAT

UNIVERSAL METAL WORKSHOP

SPECIFICATION OF STANDARD MACHINE

(Lathe, Bench drill, Milling machine, Grinding machine)

Length overall	16 $\frac{1}{4}$ "
Depth over Motor from front of Cross Slide	8 $\frac{1}{2}$ "
Centre Height	1 $\frac{3}{8}$ "
Takes between centres	6 $\frac{3}{8}$ "
Max. Bar between centres over Cross Traverse slides	1 $\frac{1}{2}$ "
Hollow Spindle admits	$\frac{1}{4}$ "
Motor (40 watt Universal AC/DC 230/250 volt or 110/120 volt)	
Intermediate Spindle	Runs on two ball races
Headstock Spindle	Ball bearing
Longitudinal movement of Tool Post max.	6"
Cross Traverse Movement	1 $\frac{7}{8}$ "
Tailstock Feed Movement	$\frac{3}{4}$ "
Headstock. Swivels through 360° and has rack and pinion movement of	1 $\frac{3}{8}$ "
Drill Chuck Cap	$\frac{1}{4}$ "
$\frac{1}{8}$ " bar will pass through this chuck headstock spindle	
Slotted Face Plate with Adaptor for Cross Slide as Drilling Table	1 $\frac{7}{8}$ " \varnothing
Chuck to Drill Table, max.	4 $\frac{3}{8}$ "
Chuck to Column	3 $\frac{1}{16}$ "

Special voltages supplied against request.

EXTRA EQUIPMENT

Lathe chuck

3 Jaw S.C. Lever Scroll Chuck ... 2 $\frac{1}{4}$ " \varnothing

Has reversible jaws and screwed and tapped backplate ready for fitting to Lathe, complete with screws. NOTE—Special jaw positions in reverse only 1-3 and 3-1, 2-2.

$\frac{1}{4}$ " Bar will pass through Chuck and Headstock Spindle.

Scroll or jig saw attachment

Table diameter, Cast Iron ... 5 $\frac{3}{4}$ "

Depth of Throat ... 8"

Movement ... $\frac{1}{2}$ "

Bearing at eccentric ... Ball race

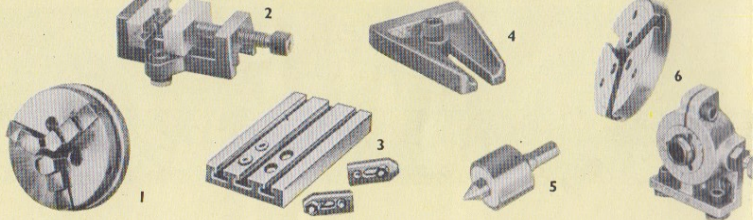
12 Blades included for Wood, Metal and Plastics.

All machines are despatched carriage paid home. We will exchange, replace or repair free of charge any Selecta Unimat Machine or part proved defective in material or workmanship within six months of despatch providing the machine or part is returned carriage paid to us with all the necessary details and has NOT been tampered with.

All dimensions, weights, etc., are approximate only and illustrations are not binding as to details as we are constantly improving designs.



SELECTA POWER TOOLS



ACCESSORIES

- 1 Self-centring 3-jaw lathe chuck.** Cushman system with 3 reversible jaws; capacity approx. 2½". Complete with backplate. **£4-5-0**

Screwed backplate only. **£6d** each

- 2 Clamping vice.** To hold pieces of every kind firmly in place for machining. Reach of the jaws is 1.35". **£2-5-0**

- 3 Milling table.** Greatly facilitates all milling operations by firmly holding pieces of every shape in position.

Fitted out with two clamps of 1.35" high. **£2-5-6**

- 4 Hand rest.** Wedge. **10/6**

- 5 Live centre.** Facilitating all turning between centres and forestalls eating out of the fixed centres.

Single ballbearing. **18/-**

Double ballbearing. **£1-5-6**

- 6 Dividing and indexing attachment.** Permits the accurate cutting and spacing of toothed wheels.

Division up to 24 teeth.

Complete with table and 3 clamps. **£4-5-0**

- 7 Drill chuck.** Jacobs type, with key. Holding tools up to ½".
(Supplied standard equipment.) **£1-16-0** each

- 8 Collet holder.** For the utmost precision in drilling, grinding, milling, etc. The holder has to be turned to measure on the machine itself, thus guaranteeing absolute oscillation-free turning of the tools.

Holds tools up to ⅝" diameter.

Double conical collets obtainable in all sizes up to ⅝".

Complete with ¼" collet. **£3-18-6** each

Spare collets. **£1-8-0** each

- 9 Dentists spindle.** Indispensable for all polishing work of dentists.

Has likewise to be turned to measure on the machine itself, in order to obtain oscillation-free turning of the polishing wheels.

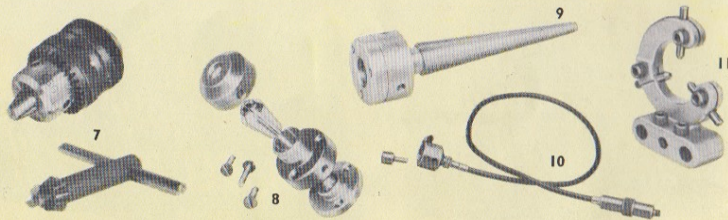
£1-7-0 each

- 10 Flexible shaft.** Length about 40", to be mounted on the headstock-spindle. By means of the drill chuck or the collet holder all kinds of tools may be mounted on this shaft.

£5-9-0 each

- 11 Steady Rest.** For supporting the pieces of work in order to eliminate bending of same. Especially useful with thin pieces of work.

£2-1-0 each



SPECIFICATION OF STANDARD MACHINE (Lathe, Bench drill, Milling machine, Grinding machine)

Length overall	16½"
Depth over Motor from front of Cross Slide	8½"
Centre Height	13½"
Takes between centres	6⅝"
Max. Bar between centres over Cross Traverse slides	1½"
Hollow Spindle admits	¼"
Motor (40 watt Universal AC/DC 230/250 volt or 110/120 volt)	
Intermediate Spindle	Runs on two ball races
Headstock Spindle	Ball bearing
Longitudinal movement of Tool Post max.	6"
Cross Traverse Movement	1⅞"
Tailstock Feed Movement	⅜"
Headstock. Swivels through 360° and has rack and pinion movement of	1⅜"
Drill Chuck Cap	¼"
⅝" bar will pass through this chuck headstock spindle	
Slotted Face Plate with Adaptor for Cross Slide as Drilling Table	1 1/16" Ø
Chuck to Drill Table, max.	4⅝"
Chuck to Column...	3 1/16"

Special voltages supplied against request.

EXTRA EQUIPMENT

Lathe chuck

3 Jaw S.C. Lever Scroll Chuck ... **2¼" Ø**

Has reversible jaws and screwed and tapped backplate ready for fitting to Lathe, complete with screws. NOTE-Special jaw positions in reverse only 1-3 and 3-1, 2-2.

¼" Bar will pass through Chuck and Headstock Spindle.

Scroll or jig saw attachment

Table diameter, Cast Iron	5⅞"
Depth of Throat	8"
Movement	½"
Bearing at eccentric	Ball race
12 Blades included for Wood, Metal and Plastics.	

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THE **Selecta** UNIMAT for machining **METALS · PLASTICS · & MANY OTHER MATERIALS**

Simply adapted for **MILLING · TURNING · DRILLING · GRINDING · POLISHING Etc.**

THE COMPLETE METAL WORKSHOP

A universal small combination machine based on a unique construction, which can simply be converted from a lathe into a drill press, milling machine, tool grinding machine, grinding and polishing machine, jig saw, circular saw, threading machine, dividing machine and portable drill. A precision product which, when professionally used, operates within extremely narrow tolerances of less than .001" and which is consequently not only for the modelbuilder, but also extremely well-suited as a complementary workshop unit for: Opticians, Instrument Makers, Bicycle and Powercycle Repairmen, Laboratories, Ivory- and Gold-carvers, Jewellers, Electricians, Sewing- and Typewriting Machine Mechanics, etc. For machining **METALS—FIBRES—PLASTICS.**

TURNING LATHE

Set up as a lathe, with the aid of the face-plate and lathe dog, machining between centres is a simple matter. Centre height is 1.42" and centre distance about 7". It is also possible to turn in overhung position by using the self-centring three jaw chuck (which has to be turned accurately to fit the machine itself), unless fitted before despatch of machine. The pivoted headstock facilitates the turning of tapered surfaces—a most unusual feature in any amateur machine. (Illustration shows three jaw chuck, which is available as extra equipment.)

GRINDING AND POLISHING MACHINE

After the grinding or polishing wheels have been attached to the headstock by means of the grindstone holder, the headstock may be turned 90 degrees, thus operating outside the lathe bed, and the grinding dust does not fall on the lathe bed, thus off-hand grinding can be done.

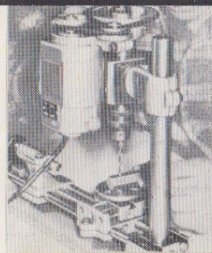
BASIC UNIT

The basic unit is supplied with a universal AC/DC motor (230/250, volts) provided with built-in suppressor for eliminating radio and television interference. The reduction gear enables changing the speed of the headstock spindle in 11 variable speeds from 365 to 6000 r.p.m.

Also supplied is the following equipment: pivoted tool holder, grindstone holder, lathe dog, two centres, column for setting up as a drill, hexagon wrench, cord with plug, switch, extensive manual and $\frac{1}{4}$ " Jacobs type drill chuck and key.

Packed in a sturdy wooden case.

Total Price £26-17-6



DRILLING

DRILLING MACHINE

By inserting the vertical column into the bed and by attaching the headstock to this column, a drill press is obtained. Maximum height of drill chuck above table (for which the faceplate may be used) is 5", stroke of the headstock is about 1".

The drill chuck can hold tools up to $\frac{1}{4}$ ". The pivoted headstock makes it possible to drill holes vertically as well as inclined at any angle.

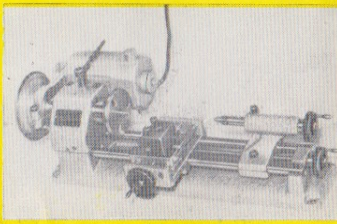
TOOL GRINDING MACHINE

By means of the grindstone holder a grinding stone is attached to the headstock. As this headstock may be mounted in any position, both on the bed and on the vertical column, the grinding stone can be fixed at any desired angle in space. Thus, by using special auxiliary equipment the most complicated tools may be ground. All commercial grinding wheels up to $2\frac{1}{2}$ " in diameter and pintype grinding tools may be used.

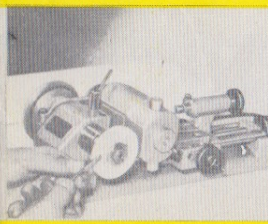
MILLING MACHINE

Each of the combinations shown may also be used as a milling machine. Milling operations of horizontal and inclined surfaces are easily carried out. By using a milling table and a flexible shaft (additional equipment) the most complicated milling operations are possible.

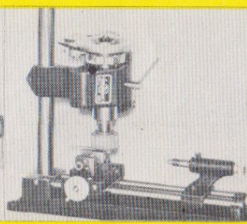
**PRECISELY—
for PERFORMANCE
and ACCURACY !!**



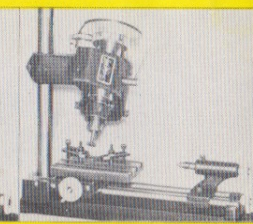
TURNING



TOOL GRINDING



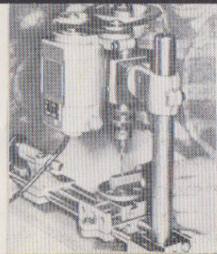
GRINDING & POLISHING



MILLING

ing METALS · PLASTICS · & MANY OTHER MATERIALS

· DRILLING · GRINDING · POLISHING Etc.



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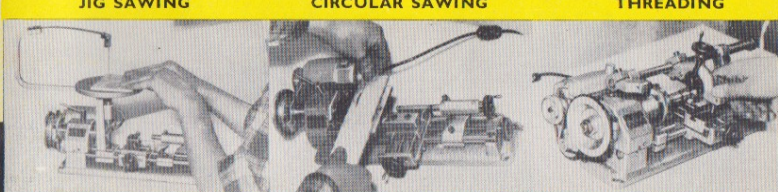
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ATTACHMENTS

JIG SAW. Easily coupled to the headstock-spindle. Ideal for jigsawing all wood, plastic and metals.

Cutting speeds are variable through the reduction pulleys and can be set according to the requirements of the material to be cut. Complete with table, holder, bow, eccentric running in a ball race, and one dozen assorted jig saw blades. **£5-9-0**

CIRCULAR SAW. The holder for the saw blade has to be turned to fit on the machine itself; thus permitting oscillation free turning of the saw blades.

Wood and plastics are sawn with the standard saw blade while metals are sawn with a special metal blade.

Complete with table and wood/plastics saw blade. **£12-8-0**

Sawblade for wood and plastics (coarse teeth). **9/-** each

Sawblade for metals (fine teeth). **18/6d** each

THREADING. This attachment operates through formers which may be ordered in many sizes.

Thus, by exchanging the former (16 PTI supplied) any other BSW, NC or NF threads may be cut.

Screws, bolts and threaded stock are easily

made with this attachment, while internal threads may be cut with a specially formed tool bit.

For the cutting of threads in steel a special double reduction gear is obtainable, which reduces cutting speed to 125 r.p.m.

Complete with cutting arm, tool holder, one former and tool bit for cutting external threads. **£6-14-0**

Extra formers obtainable in many sizes.

19/6d each

Formed tool bit for external threads.

Ditto for internal threads.

Special double reduction gear. **£2-2-0** each

TOOLBOX. Sturdy cardboard box containing:—

2 formed tool bits of HSS steel 5% Co.

4 twist drills of assorted sizes.

1 centre drill 1.5 mm.

1 countersink bit 90° 5" diam.

1 longhole cutter.

1 slotting cutter.

1 standard grinding wheel | high grade

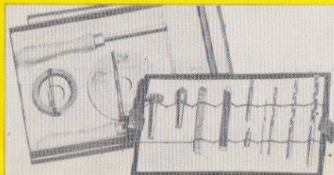
1 cup grinding wheel | carborundum.

2 turning graters for woodcutting.

£3-9-6

... ideal for OPTICIANS · JEWELLERS Etc.

TOOL BOX



**FAITHFULLY —
for REPRODUCTION
& MODEL-MAKING!!**

